

Operating manual

**W465H, W475H/M, W485M, W4105H/M, W4130H/M,
W4180H/M, W4240H, W4250M, W4300H, W4330M,
W4280X, W4350X**

Clarus Control

Thinking of you
 **Electrolux**

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The manufacturer reserves the right to make changes to design and component specifications.

Safety Precautions



Safety Precautions



The machine is only intended for water-wash use.

Do not allow minors to use the machine.

Do not hose down the machine with water.

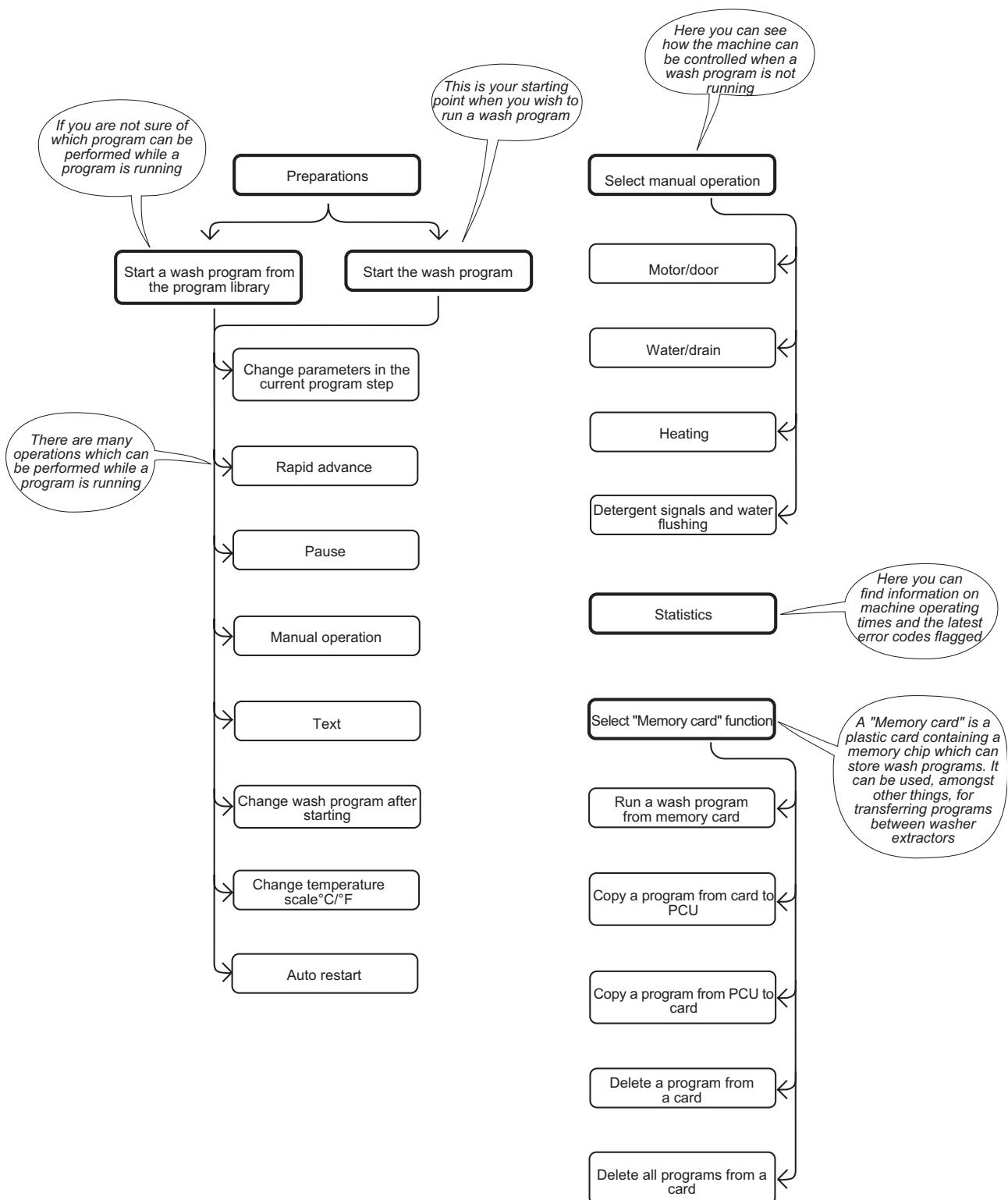
The machine's door lock must under no circumstances be bypassed.

If the machine develops a fault, this must be reported to the person in charge as soon as possible. This is important both for your safety and that of others.

The machine is not intended to be used by people (including minors) with reduced physical or mental capacity or lack of experience and knowledge. Such people must be instructed in the use of the machine by a person who has responsibility for their safety. Minors must be supervised to ensure that they do not play with the machine.

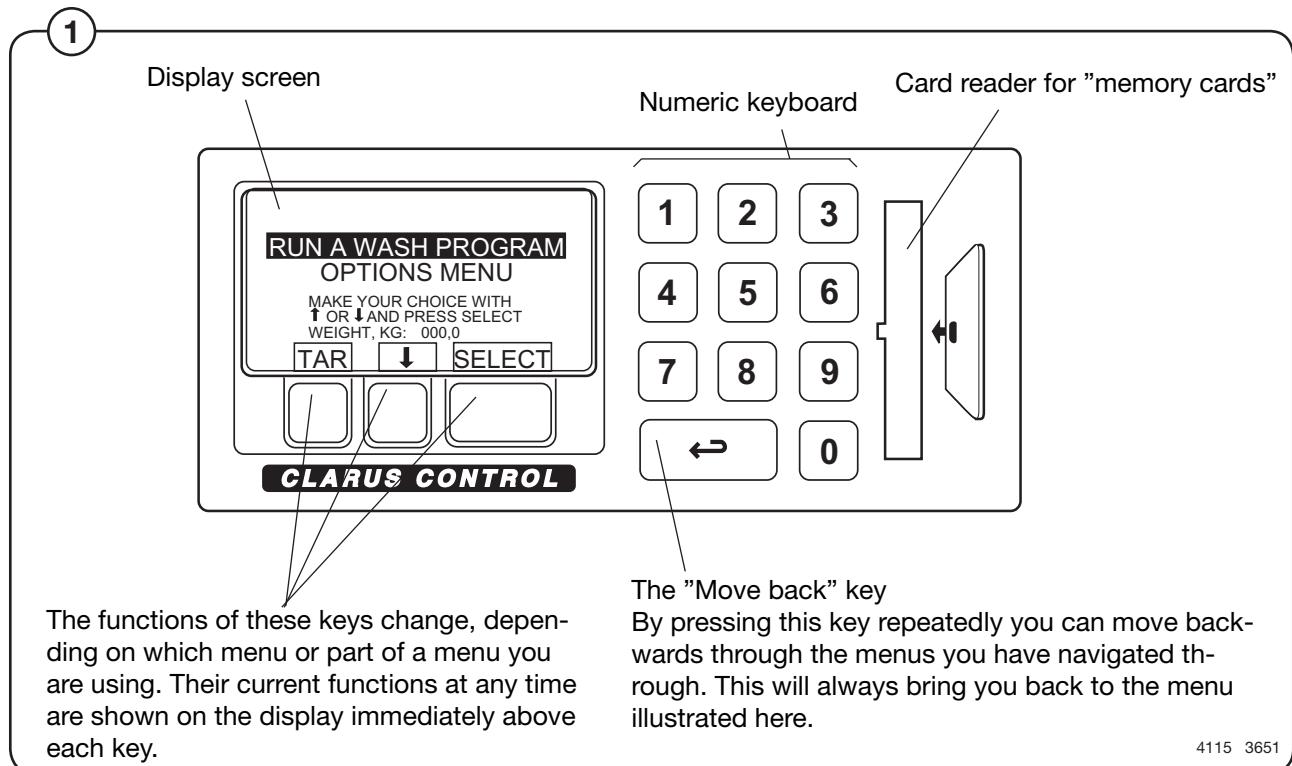


All external equipment which is connected to the machine must be CE/EMC-approved and connected using an approved shielded cable.



Procedure for use

- ① This washer extractor is controlled by a microprocessor-based program control unit. There are many advantages to this equipment, including:
 - timing, levels and temperatures are controlled with great precision and flexibility
 - detailed information on wash programs, machine status and operations, wash times and temperatures can be accessed in plain language on the large display screen
 - it is possible for the user to create new wash programs, and to adapt programs precisely on the basis of experience and to suit various types of textile, degrees of soiling etc.
 - a very high level of machine safety through continuous monitoring and built-in safety interlocks
 - the program control unit has a reader for "memory cards". These are cards the size of a credit card which contain a memory chip. Memory cards allow the user to:
 - transfer wash programs between a PC and the washer extractor, or from one washer extractor to another
 - run programs straight from a card
 - great flexibility during program operation:
 - rapid advance both forwards and backwards in the program
 - change temperatures, program module lengths and extraction speeds directly, during program operation
 - start a different program at any time during program operation.



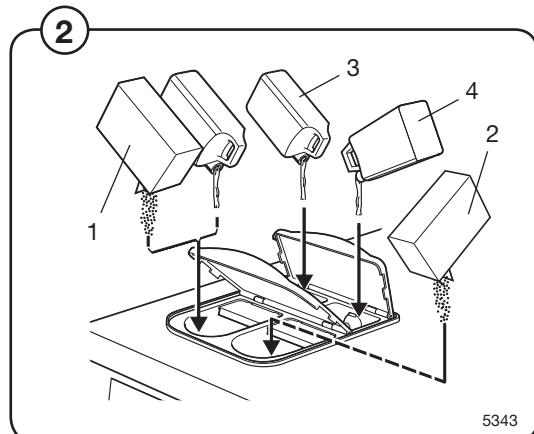
Procedure for use

Preparations

- Sort the load, paying attention to the textile care labels on the items. Empty all pockets and do up zip fasteners.
- Open the machine door, check that the drum is empty, load the items into the machine and close the door.
- Check that the emergency stop button has not been pressed inwards (see "Machine safety").

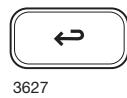
Measuring the detergent

(2) Compartment 1 – pre-wash, powder or liquid detergent
Compartment 2 – main wash, detergent powder
Compartment 3 – softener
Compartment 4 – main wash, liquid powder



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The "Move back" key



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If you find you are in the wrong place, or if you want to undo earlier key presses:

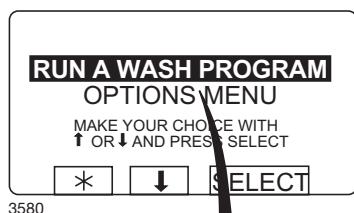
Press the "Move back" key one or more times.

The "Move back" function

Each press of the "Move back" key moves you back one menu, in reverse order. By pressing this key repeatedly you can return to this menu at any time:



To start the wash program



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If this menu is not currently displayed:

Press repeatedly.



If "GO TO THE MENU" is highlighted:

Press .



When "RUN A WASH PROGRAM" is highlighted:

Press SELECT.

Two ways of starting a program

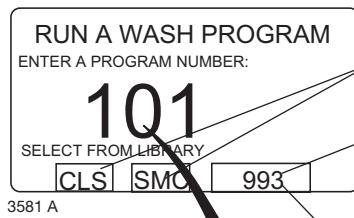
By entering the actual program number

Enter the actual program number if you know it, then press **SELECT**.

By starting from the program library (see section "To start a wash program from the program library")

If you are unsure about the programs available, you can select a program from the program library, where the programs are listed with their descriptions.

Procedure for use



Here you can select programs from the program libraries. See the section entitled "To start a wash program from the program library".

Displayed here will be the number of the most frequently used program. S993 would indicate the number of a program on a memory card.

Press this key if you want to select this program.

for example: **991**

SELECT

Use the numeric keys to enter the program number

Press SELECT.

If you have entered the wrong number

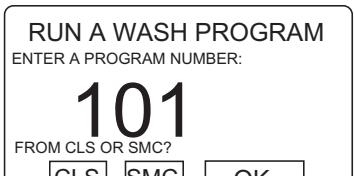
Enter the correct number to overstrike the earlier one.

Note: you must always enter three digits, even when the number is really only a one or two-digit number.

Examples:

The program number required is **9**. Enter **009** to overstrike all digits in the wrong number.

The program number required is **19**. Enter **019** to overstrike all digits in the wrong number.



If you have a **memory card** in the program control unit, and the program you selected is both on the memory card and in the PCU, you will be asked "FROM CLS OR SMC?".

CLS

Press CLS if you want to take the program from the PCU.

SMC

Press SMC if you want to take the program from the memory card.

In some of the text shown on the display, Clarus Control is referred to as CLS and the memory card is referred to as SMC.

Memory cards

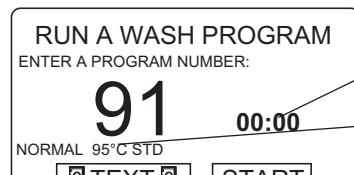
A memory card is a plastic card, the size of a credit card, with an electronic memory chip inside it. This card is capable of storing 10 to 15 wash programs of normal size. If the programs are mostly small ones, more of them can be stored, whereas larger programs will reduce the number which can be held by the card. Memory cards of this type can be used to:

- transfer wash programs from one washer extractor to another
- run wash programs straight from the card
- transfer wash programs from a PC to a memory card and from a memory card to a PC (these procedures, and how to write a wash program on a PC, are described elsewhere).

Memory cards are described in detail in the section entitled "The Memory card".

Procedure for use

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Delayed start time (hrs:
mins)
Program name



If you want to see the de-
scription of the program:

Press **TEXT**.

1



Choose 1 or 2:

1 To start the program now:

Press START.

2



2 **Delayed start**

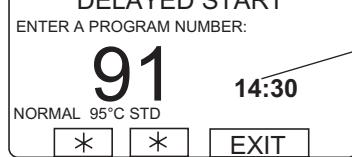
**Use the numeric keys
to enter a time (max. 99
hrs). This parameter ap-
pears on the right of the
display.**



Press START.

Pressing "Text" displays more information

The text displayed is a description of the wash program selected. This text description is inserted when a new wash program is created. This procedure is described fully in the programming manual.



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Time left before the
machine is to start



If you want to cancel the
delayed start:
Press EXIT



During a wash program:

**Press to
make the machine pause
during the wash program.**

Delayed start

Delayed start means that the machine will not start the wash program until the time entered has elapsed.

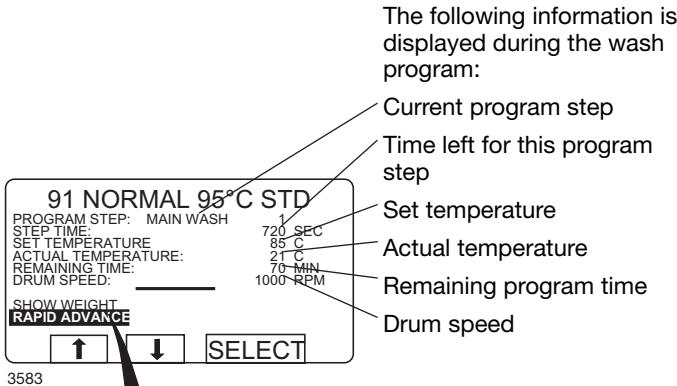
This function allows you, for example, to load the machine in the evening, but delay the start of the wash until early the next morning, to end in time for the next shift.

Two ways of pausing during a wash program

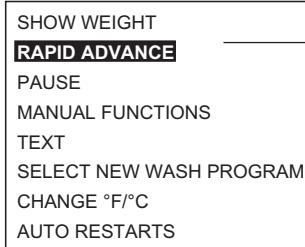
There are two ways of pausing during a wash program:

- 1 By pressing .
- 2 As an additional function. This is described in section "Pause".

Procedure for use



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If required:
 Select a function using the cursor keys.

SELECT Press SELECT.

To terminate a program before it has finished

- Select RAPID ADVANCE and press SELECT. Advance to "END OF PROGRAM" and press SELECT.
- Wait until "THE DOOR IS OPEN" appears on the display.
- Now the door can be opened.

To change parameters in the current program step

See section "To change parameters in the current program step".

Certain program step parameters can be altered during the course of the program. In the example (left), the length of the program step and the heating temperature can be altered.

Additional functions during the program

Rapid advance (see section "To change parameters in the current program step")

Rapid advance through the program to the program step required. Rapid advance can be used to move both forwards and backwards through the program.

Display weight (see section "Display weight")

The actual load weight is shown in large digits on the display (weight display mode). (On machines with weighing equipment only.)

No water level reduction (see section "No water level reduction")

Machines with weighing equipment installed adjust the water level automatically according to the load weight. This function lets you switch off water level reduction during the current program.

Pause (see section "Pause")

The machine stops. The drain valve remains closed. Another way to pause the program: Press .

Manual functions (see section "Manual operation during a program")

The following functions can be controlled manually during the course of the program:

- all water valves, drain and pumps (where applicable).
- limit highest extraction speed.
- motor on/off after end of wash program.
- flush detergent.

Text (see section "Text")

Display description of wash program (if available).

Select a different wash program (see section "To change the wash program after program operation has commenced")

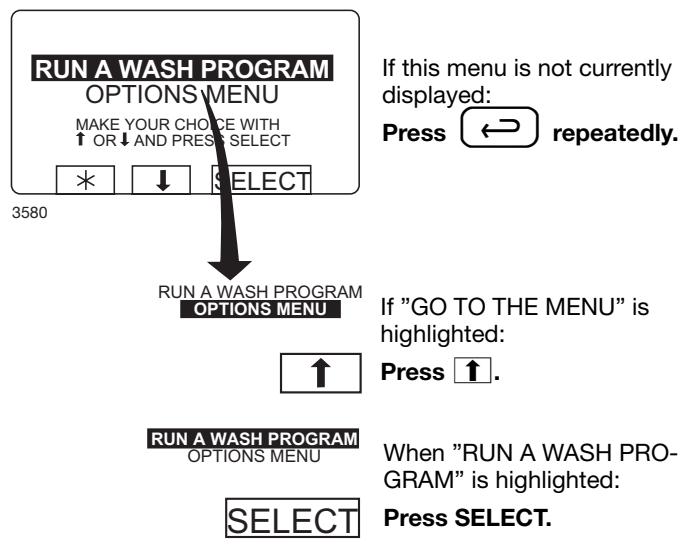
You can switch to using a different wash program at any stage during the wash. Once this function has been selected, the current step (for example, rinse) of the earlier program will be allowed to finish and then the new program will start (from the beginning).

Change temperature scale °C or °F (see section "To change temperature scale °C/°F")

Auto restart (see section "Auto restart")

Here you enter the number of times you wish the wash program to restart automatically.

To start a wash program from the program library



What is the program library?

The program library lists all wash programs, both user and standard programs, showing their program numbers and a description, for example:

1	MY OWN 40 °C
2	MY OWN 60 °C
3	MY OWN 90 °C
991	NORMAL 95°C STD
992	NORMAL 60°C STD
993	NORMAL 40°C STD
994	INTENSIVE 95°C
995	INTENSIVE 60°C
996	PERM. PRESS 60°C
997	PERM. PRESS 40°C
998	LOW EXTRACT 1 MIN
999	HIGH EXTRACT 5 MIN

Each time a new program is stored in the machine program memory, its number and description will be inserted automatically into the program library.

The program library may be used for starting a wash program, but is also used in programming, when a wash program needs to be modified or if a new program is to be created on the basis of an existing one.

Procedure for use

RUN A WASH PROGRAM
ENTER A PROGRAM NUMBER:
101
FROM CLS OR SMC?
CLS **SMC** **OK**

4031 A

CLS
SMC

To select a program from the PCU program library:

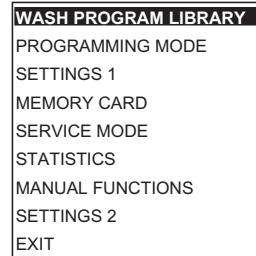
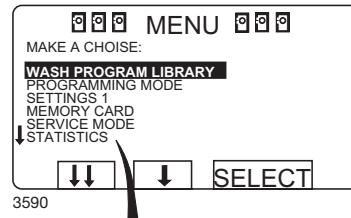
Press CLS.

If there is a memory card in the PCU and you wish to select a program on that:

Press SMC.

Select library via menu

You can also select the program library via the option "GO TO THE MENU". Then select "WASH PROGRAM LIBRARY".



LIBRARY
PR.NO NAME
991 NORMAL 95°C STD
992 NORMAL 60°C STD
993 NORMAL 40°C STD
994 INTENSIVE 95°C
995 INTENSIVE 60°C
996 PERM. PRESS 60°C
997 PERM. PRESS 40°C
998 LOW EXTRACT 1 MIN
999 HIGH EXTRACT 5 MIN
***** **SELECT**

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991 NORMAL 95°C STD
992 NORMAL 60°C STD
993 NORMAL 40°C STD
994 INTENSIVE 95°C
995 INTENSIVE 60°C
996 PERM. PRESS 60°C
997 PERM. PRESS 40°C
998 LOW EXTRACT 1 MIN
999 HIGH EXTRACT 5 MIN

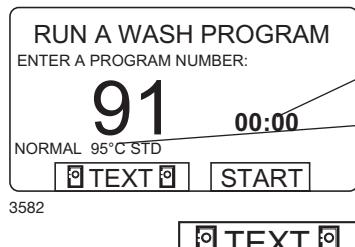


Press ↓ the required number of times...

...to highlight the wash program required.

SELECT

Press SELECT.



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Delayed start time (hrs:
mins)
Program name

If you want to see the de-
scription of the program:

Press TEXT

Pressing "Text" displays more information

The text displayed is a description of the wash
program selected. This text description is inserted
when a new wash program is created. This pro-
cedure is described fully in the programming manual.

(1)

START

Choose 1 or 2:

- 1 To start the program now:
Press START.

(2)



2 **Delayed start**

**Use the numeric keys
to enter a time (max. 99
hrs). This parameter ap-
pears on the right of the
display.**

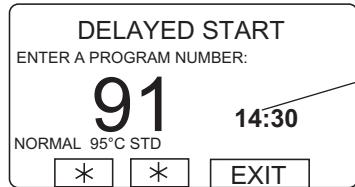
START

Press START.

Delayed start

Delayed start means that the machine will not
start the wash program until the time entered has
elapsed.

This function allows you, for example, to load the
machine in the evening, but delay the start of the
wash until early the next morning, to end in time for
the next shift.



Time (in hours and min-
utes) left before the machi-
ne is to start.

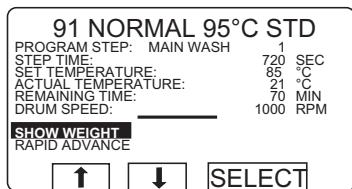
If you want to cancel the
delayed start:
Press EXIT.

EXIT

The functions which are avail-
able during program opera-
tion are described in sections
"To change parameters in the
current program step - Auto
restart".

Procedure for use

To change parameters in the current program step



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During program operation the display will look like this (see section "To start the wash program").

You can alter the following program steps:

Prewash, Main wash, Rinse, Drain, Soak

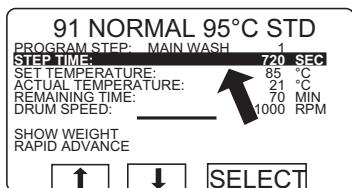
Length of program step (max. 9998 seconds), heating temperature (max. 97°C).

Extraction

Length of program step (max. 3599seconds), extraction speed.



Press one or more times...



...to highlight the line required.



Press **SELECT**.



Use the numeric keys to enter the new parameter.



Press **SELECT**.

If you have entered the wrong parameter

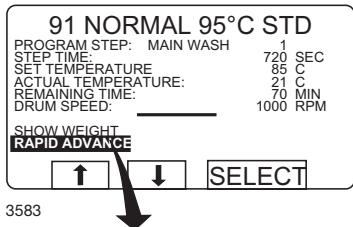
Continue pressing numeric keys to overstrike the incorrect parameter.

Note: always use the same number of digits as used on the display to overstrike the incorrect parameter.

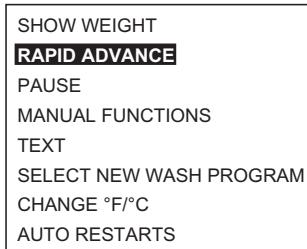
Example:

To change the time for the program step to 30 seconds, enter **030** to overstrike the earlier parameter.

Rapid advance



During program operation the display will look like this (see section "To start the wash program").



To terminate a program before it has finished

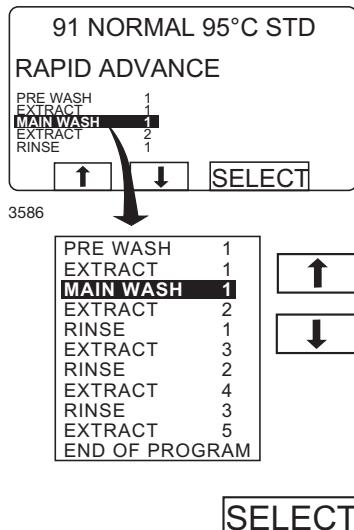
- Select RAPID ADVANCE and press SELECT. Advance to "END OF PROGRAM" and press SELECT.
- Wait until "THE DOOR IS UNLOCKED" appears on the display.
- Now the door can be opened.

Check that "RAPID ADVANCE" is highlighted.

If it is not highlighted:
Press **↑** or **↓** one or more times to highlight "RAPID ADVANCE".

SELECT Press SELECT.

Procedure for use



Press or one or more times to highlight the program step you wish to advance to.

Rapid advance works in both directions

Rapid advance works in both directions, using and .

Using rapid advance to move forwards allows you to skip one or more program steps. Using rapid advance backwards allows you to repeat one or more program steps.

Automatic return to normal display

Once you have selected any of the functions below, you must make any changes required within 20 seconds. If no further keys are pressed within 20 seconds, the display will revert automatically to its normal appearance during a wash program.

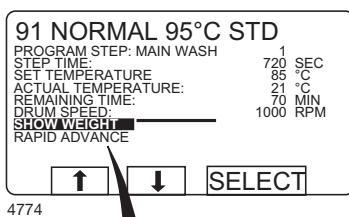
SELECT Press **SELECT**.

Procedure for use

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For machines with weighing equipment installed only!

Show weight

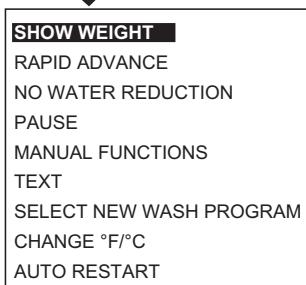


During program operation the display will look like this (see section "To start the wash program").

Show weight

The actual weight is shown in large digits on the display (weight display mode).

If the weighing equipment is not connected, the error message "FUNCTION NOT ALLOWED" will appear. See the section "Fault-finding, weighing equipment" in the machine manual.



Press or one or more times to highlight "SHOW WEIGHT".

SELECT



Weight display mode:

The actual net weight is shown in large digits on the display.

Return to normal display

The display will return to normal at the end of the "time for weight display" set as a parameter in Settings 1. The manufacturer's default parameter is 20 seconds.

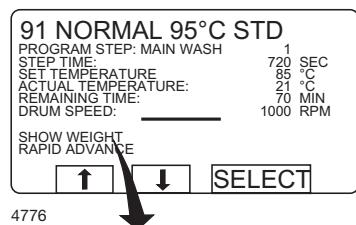
To end weight display sooner

Press or use the numeric keys to enter a new program number.

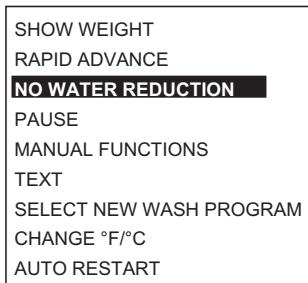
Procedure for use

For machines with weighing equipment installed only!

No water reduction



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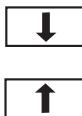


During program operation the display will look like this (see section "To start the wash program").

No water reduction

The wash load is weighed during the program and the water level is adjusted automatically according to its weight. If the load is not a full one, the water level will be reduced according to a water level reduction table. You can switch off water level reduction at any stage of a program.

Note that if you select "NO WATER REDUCTION", this applies only to the program currently running. The next time a program is started, water level reduction will occur automatically again.

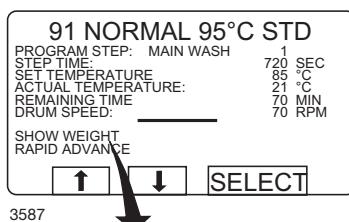


Press **↑** or **↓** one or more times to highlight "NO WATER REDUCTION".

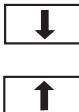
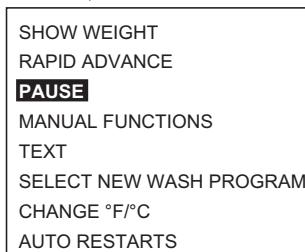


SELECT Press SELECT.

Pause



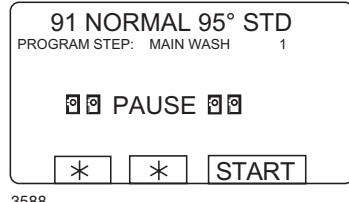
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Press **↑** or **↓** one or more times to highlight "PAUSE".



Press **SELECT**.



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Press **START** to restart the wash program.

Two ways of pausing during a wash program

Note that you must be in normal wash mode to be able to pause in this way. If, for example, you are using "Manual Functions", you will have to exit that first before you can use Pause.

There are two ways of pausing during a wash program:

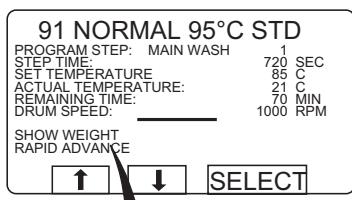
- 1 As an additional function. This is described in this section.
- 2 By pressing .

When the machine pauses:

- Program operation is halted.
- Filling is halted (where applicable).
- Heating is halted (where applicable).
- The motor stops.
- The drain valve remains closed.
- The door cannot be opened.

Procedure for use

Manual operation during a program



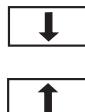
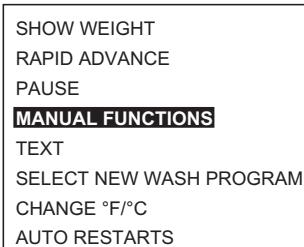
During program operation the display will look like this (see section "To start the wash program").

Two types of manual operation

There are two types of manual operation, which should not be confused:

- **Manual operation during a program**
These functions are described in this section.
- **Manual operation when no program is running**

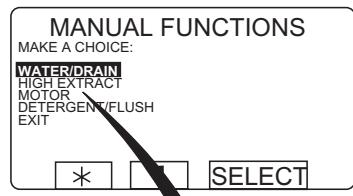
These functions are described in section "Manual operation".



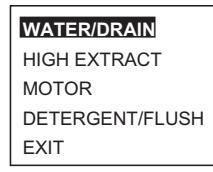
Press **↓** or **↑** one or more times to highlight "MANUAL FUNCTIONS".



Press **SELECT**.



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Use the cursor keys to select the function.



SELECT

Press **SELECT**.

Automatic return to normal display

Once you have selected any of the functions below, you must make any changes required within 20 seconds. If no further keys are pressed within 20 seconds, the display will revert automatically to its normal appearance during a wash program.

Manual functions during a wash program

Water/drain (see section "Water/drain")

Allows manual operation of all water valves and the drain valve.

Highest extraction speed (see section "Maximum extraction speed")

Here you can limit the maximum extraction speed for the current program.

Motor (see section "Motor on after wash")

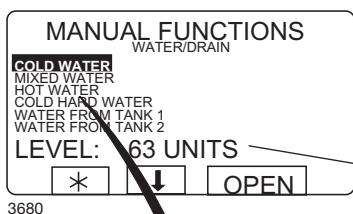
Motor on/off after program has ended.

Detergent valves (see section "Detergent signals and water flushing")

Allows you to control all valves in the detergent compartment or in external detergent supply system.

Procedure for use

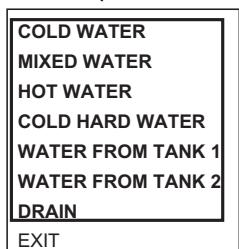
Water/drain



To access this function, see instructions in section "Manual operation".

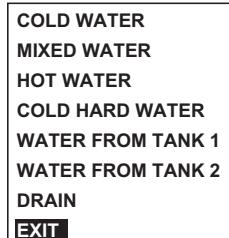
Water level in drum

Use and to select the water/drain option you require.



OPEN

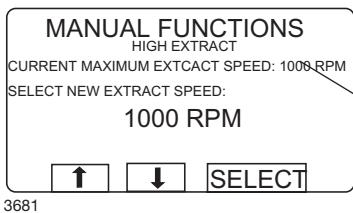
Press OPEN.
The function will be activated for as long as you press and hold this key. The function ceases as soon as you release the key.



SELECT

Press SELECT.

Maximum extraction speed



To access this function, see instructions in section "Manual operation".

Maximum extraction speed in current program.



Enter the maximum extraction speed you require for this program.

SELECT

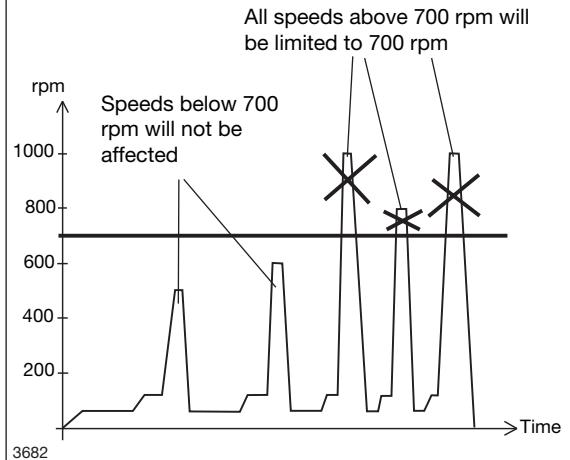
Press SELECT.

To limit the program's highest extraction speed

This function allows you to modify the highest extraction speed allowed during the program.

Example:

Assume that the highest speed in the program is 1000 rpm and that you have set 700 rpm as the highest speed allowed.

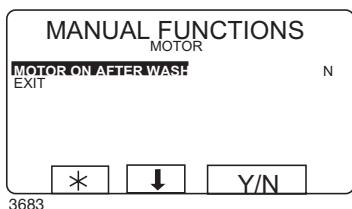


This change will affect the current program only. No change will be implemented if extraction is taking place at the time of the (attempted) change. The next time that this program is used, the original maximum speed will apply.

This function does not allow you to set a **higher** speed than the usual maximum speed for the program.

Procedure for use

Motor on after wash



To access this function, see instructions in section "Manual mode".



A toggle function:
Use Y/N to toggle the function from ON (Yes) to OFF (No).



When you have finished:
Press ↓ to highlight "EXIT".



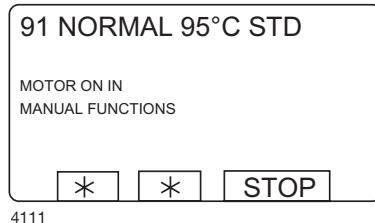
Press SELECT.

Motor to rotate after program has ended

If you answer **Yes (Y)**:

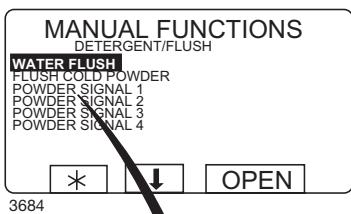
The motor will continue to rotate in alternative directions after the program has ended. This prevents creasing of the load.

When the program has ended, the display will look like this:



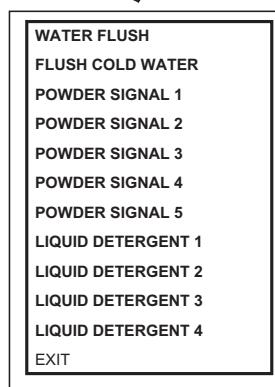
Press STOP to stop the motor.

Detergent signals and water flushing



To access this function, see instructions in section "Manual mode".

Use **↓** and **↑** to select the function you require.



Detergent signals and water flushing

FLUSH WATER:

This function uses water to clear detergent from the supply tubes of the detergent dispensing system.

POWDER SIGNAL:

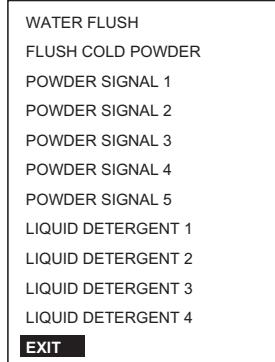
This function will either: a) use water to dispense detergent from machine compartments, or: b) dispense detergent from an external system. The number of valves present will vary according to the machine type.

Press OPEN.

The function will be activated for as long as you press and hold this key. The function ceases as soon as you release the key.

When you have finished:
Press ↓ repeatedly to highlight "EXIT".

OPEN

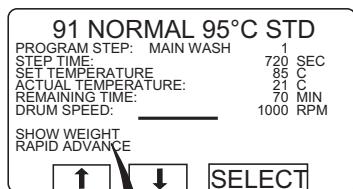


SELECT

Press SELECT.

Procedure for use

Text

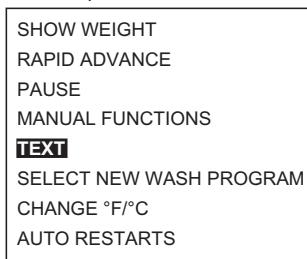


3592

During program operation the display will look like this (see section "To start the wash program").

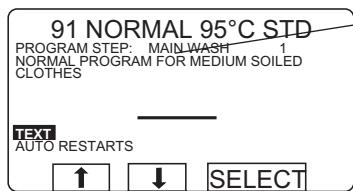
Pressing "Text" displays more information

The text displayed is a description of the wash program selected. This text description is inserted when a new wash program is created. This procedure is described fully in the programming manual.



Press **↑** or **↓** one or more times to highlight "TEXT".

SELECT Press **SELECT**.



3630

Description of wash program

SELECT

To return to the normal display:
Press **SELECT** again.

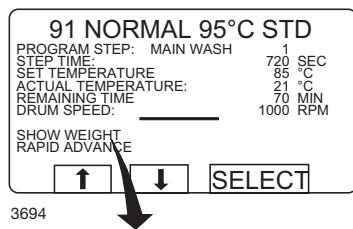
Automatic return to normal display

If you do not press **SELECT** within 20 seconds, the display will revert automatically.

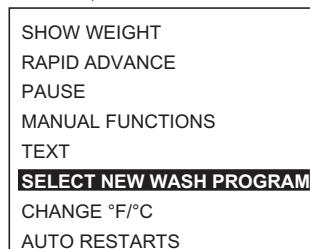
Procedure for use

29

To change the wash program after program operation has commenced



3694

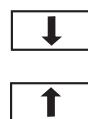


During program operation the display will look like this (see section "To start the wash program").

To change the wash program after program operation has commenced

You can change to a different wash program at any time during program operation. When you do, the current function (for example, rinse) will be interrupted. The new program will start immediately after that (from the beginning).

This function is useful, for example, if you discover that you have started the wrong program.



Press **↑** or **↓** one or more times to highlight "SELECT NEW WASH PROGRAM".



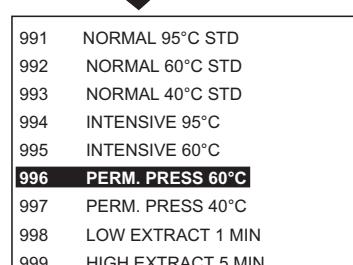
Press **SELECT**.



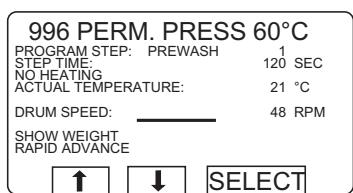
3695



Press **↓** one or more times as required...



Press **SELECT**.



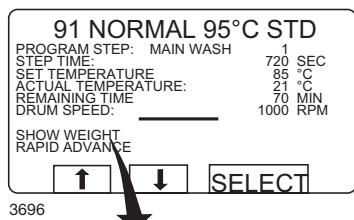
The existing wash program will now be interrupted and the new one will begin.

Automatic return to normal display

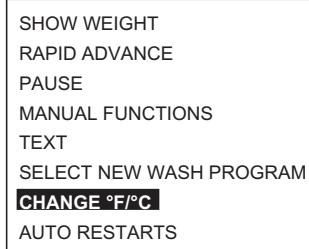
If no key is pressed within 20 seconds, the display will revert automatically.

Procedure for use

To change temperature scale °C/°F



During program operation the display will look like this (see section "To start the wash program").



Press or one or more times to highlight "CHANGE °C/F".



SELECT Press SELECT.

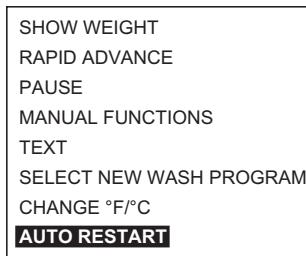
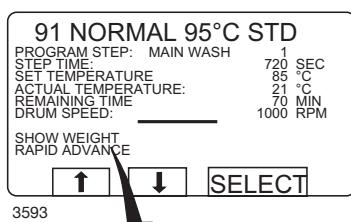
To change temperature scale °C/°F

This function changes the temperature scale used for all temperatures displayed during the wash program.

Please note that this scale change applies only to the current program. The default temperature scale will apply next time you run a program.

To change the default temperature scale for all programs, use the function "SETTINGS", which is described in the Service Manual.

Auto restart



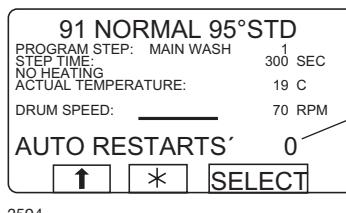
Press one or more times to highlight "AUTO RESTART".

SELECT Press SELECT.

What is Auto restart?

Auto restart means that the same program will be repeated one or more times, according to the number set. The program will restart immediately, and the door will remain locked. If you have set auto restart, the display will show the number of restarts left.

This function is used primarily for testing.



Shows the number of times the program will restart.



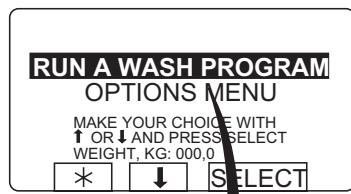
If required:
Use the numeric keys to change the required number of restarts.

SELECT Press SELECT.

Procedure for use

Manual operation

To select manual operation



If this menu is not currently displayed:
Press repeatedly.

RUN A WASH PROGRAM
OPTIONS MENU

SELECT

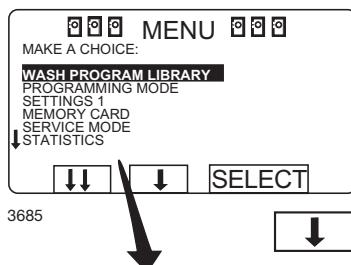
Press to highlight "GO TO THE MENU".

Press **SELECT**.

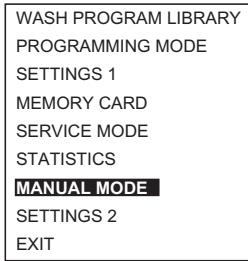
Two types of manual operation

There are two types of manual operation, which should not be confused:

- **Manual operation when no program is running**
These functions are described in this section.
- **Manual operation during a program**
These functions are described in **section "Manual operation"**.



Press six times...



....to highlight "MANUAL MODE".

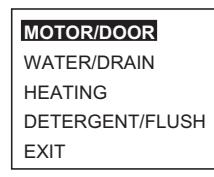
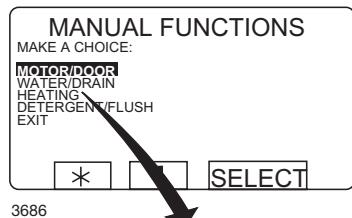
SELECT

Press **SELECT**.

All manual settings are cancelled when you exit manual operation

All manual settings (such as door, motor, temperature, and drain) will be cancelled when you exit manual operation.

The door is unlocked, the motor stops, the drain opens, heating is halted, and the temperature is reset to zero.



Select the function required using the cursor keys.



Press SELECT.

Manual operation when no program is running

Motor/door (see section "Motor/door")

Lock/unlock door. Switch motor on/off (normal drum action).

Water and drain valves (see section "Water/drain")

Operation of drain valve and all water valves.

Heating (see section "Heating")

Heat water to any temperature required.

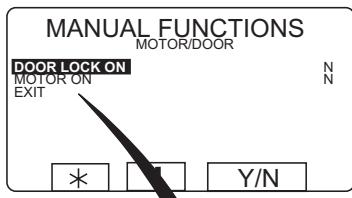
Detergent valves (see section "Detergent signals and water flushing")

Allows manual operation of all valves in detergent compartment or external detergent supply system.

Exit

Returns you to the MENU display.

Motor/door



Press ↓ as required to select a function.



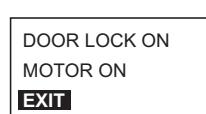
A toggle function:

Use Y/N to toggle the function from ON (Yes) to OFF (No).



When you have finished:

Press ↓ to highlight "EXIT".



Press SELECT.

Lock the door and start the motor

DOOR LOCK ON

If you answer Yes (Y):

The door will be locked. Note that you must always lock the door before you can operate the machine manually.

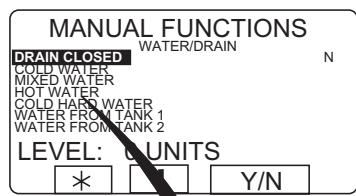
MOTOR ON

If you answer Yes (Y):

The motor will start and operate, using normal action.

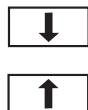
Procedure for use

Water/drain

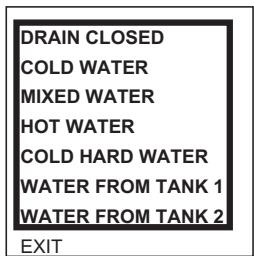


3688

To access this function, see instructions in section "To select manual operation".



Use or to select Drain or one of the six Water filling alternatives.



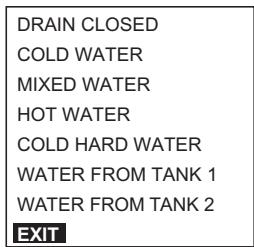
Drain (a toggle function) :
Press Y/N to toggle the function from Yes (Y) and No (N).



Water filling:
Press OPEN.
The function will be activated for as long as you press and hold this key. The function ceases as soon as you release the key.

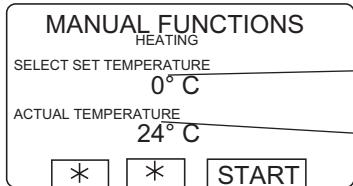


When you have finished:
Press to highlight "EXIT".



Press SELECT.

Heating



3689

To access this function, see instructions in section "To select manual operation".

Temperature selected

Actual temperature



Use the numeric keys to enter the temperature the water is to be heated to.

START

Press START.
Heating will now begin.

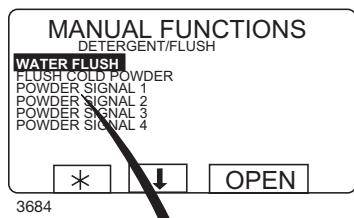
STOP

If you wish, you can cancel heating before the set temperature is reached:

Access this function again and press STOP.

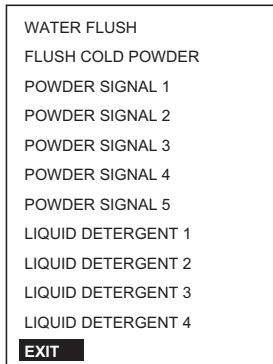
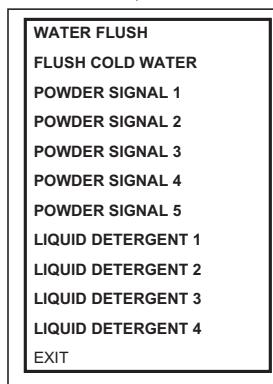
Procedure for use

Detergent signals and water flushing



To access this function, see instructions in section "To select manual operation".

Use **↓** and **↑** to select the function you require.



Press **SELECT**.

Detergent signals and water flushing

FLUSH WATER:

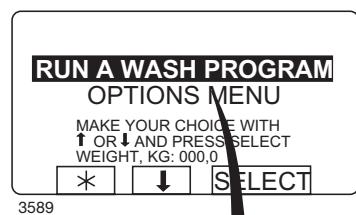
This function uses water to clear detergent from the supply tubes of the detergent dispensing system.

POWDER SIGNAL:

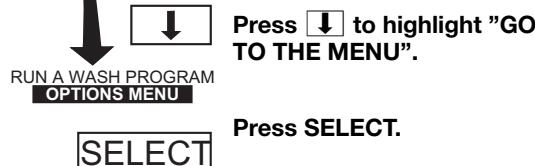
This function will either: a) use water to dispense detergent from machine compartments, or: b) dispense detergent from an external system. The number of valves present will vary according to the machine type.

Statistics

To select Statistics

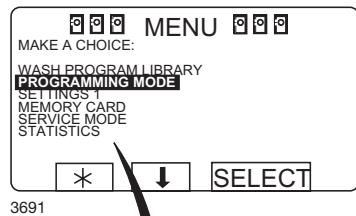


If this menu is not currently displayed:
Press repeatedly.

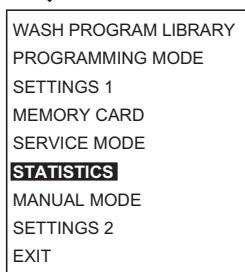


Press to highlight "GO TO THE MENU".

Press SELECT.



Press five times...



...to highlight "STATISTICS".

SELECT Press SELECT.

Procedure for use

STATISTICS			
TOTAL RUN TIME HOURS	00	TOTAL TRIP RUN TIME HOURS	00
HOURS SINCE LAST SERVICE	00		
LAST 5 ERROR CODES	PROGRAM	HOURS	00
08 NO HEATING	991	00	00
08 NO HEATING	996	00	00
08 NO HEATING	993	00	00
08 NO HEATING	991	00	00
08 NO HEATING	991	00	00
	*	↓	EXIT

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To display the next page of statistics:
Press .

STATISTICS			
PROGRAM	WASHES	PROGRAM	WASHES
12	4	10	0
78	0	52	0
991	35	123	0
993	1	992	3
995	0	994	0
997	0	996	0
999	0	998	0
	*	*	EXIT

3958

To display the next page of statistics:
Press .

STATISTICS			
PROGRAM	WASHES	PROGRAM	WASHES
S85	0	S86	0
S80	0	S89	0
S99	0	S991	0
S992	0	S993	0
S994	0	S995	0
S996	0	S997	0
S998	0	S999	0
	↑	*	EXIT

4040

If a memory card is in place in the PCU, the memory card program statistics will be displayed. An "S" before the program number shows that it is a memory card program.

 EXIT

When you want to cancel the display of statistics:
Press EXIT.

The Statistics function

The Statistics function gives you access to the following information:

TOTAL RUN TIME HOURS:

Shows the total operating time for the machine since it was installed.

TOTAL TRIP RUN TIME HOURS:

This register records the total number of operating hours since it was last reset. It can, for example, be used to keep track of operating time since the last machine service. The procedure for resetting it is described in section "To reset "Total trip run time hours" to zero".

HOURS SINCE LAST SERVICE

This register shows the time elapsed since the last service. The register can also be used to generate a signal on the display to show when service is needed (see the section "Settings 1" in the service manual).

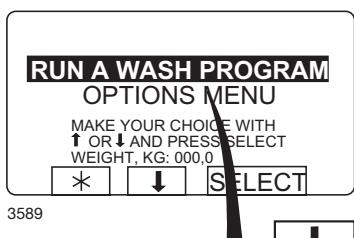
LAST 5 ERROR CODES:

This displays the most recent error codes, and tells which program was operating at the time and during which hour (according to the "total run time" record) the error code was flagged.

NO. OF TIMES EACH PROGRAM USED:

Displays statistics for PCU programs and for programs on any memory card currently in place in the PCU.

Resetting statistic registers



If this menu is not currently displayed:
Press repeatedly.

Press to highlight "GO TO THE MENU".

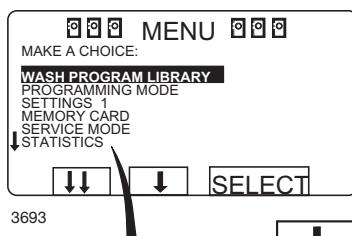
Press **SELECT**.

Statistics registers which can be reset to zero

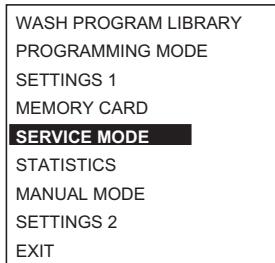
The following registers in the statistics function can be cleared (reset to zero):

- Total trip run time hours.
- Hours since last service.
- No. of times each program used (PCU programs).
- No. of times each program used (programs on any memory card currently in the PCU).

Procedure for use



Press **↓**...four times....



SELECT Press **SELECT**



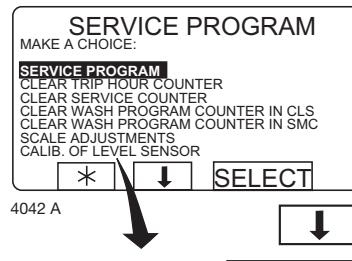
The service program may only be used by authorised personnel, because most safety interlocks are disabled.



Press the **button** on the
CPU circuit board.

Prevention of unauthorised access

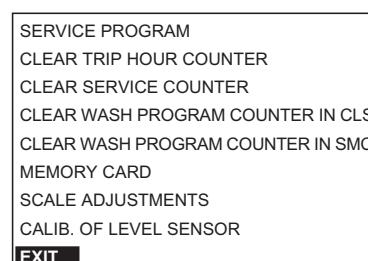
A button on the CPU circuit board has to be pressed to gain access to the service program, to prevent its unauthorised or inadvertent use. The CPU circuit board is located behind the control panel.



Now you can choose either to clear/reset a register or to adjust the weighing equipment.

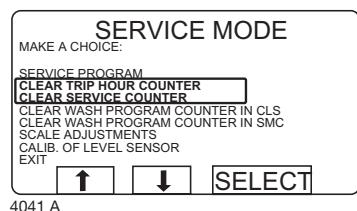
Press **↓** to highlight the option you want, then press **SELECT**.

If you want to exit:
Press **↓** repeatedly until **EXIT** is highlighted.



SELECT Press **SELECT**.

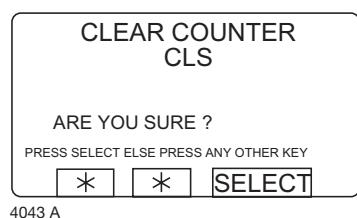
Time counter, hours after last service



Both counters can be reset in the same way.

Press **↓** so that **CLEAR TRIP HOUR COUNTER OR CLEAR SERVICE COUNTER** will be marked.

Press **SELECT**.



First you have a chance to change your mind.

If you **do not want to reset** the register:

Press any key other than SELECT.

If you want to reset the register:

Press SELECT.

Procedure for use

Number of washes for program in timer or memory card

SERVICE MODE MAKE A CHOICE: SERVICE PROGRAM CLEAR TRIP HOUR COUNTER CLEAR SERVICE COUNTER <input checked="" type="checkbox"/> CLEAR WASH PROGRAM COUNTER IN CLS <input type="checkbox"/> CLEAR WASH PROGRAM COUNTER IN SMC
<input type="button" value="↑"/> <input type="button" value="↓"/> <input type="button" value="SELECT"/>

4044 A

You can reset program in both timer and the memory card (if inserted).

Press ↓ so that CLEAR WASH PROGRAM COUNTER IN CLS or CLEAR WASH PROGRAM COUNTER IN SMC will be marked.

Press SELECT.



CLEAR COUNTER CLS FROM PROGRAM NUMBER: 0 TO PROGRAM NUMBER: 0 TO END: TO PROGRAM NUMBER = 0 <input type="button" value="*"/> <input type="button" value="↓"/> <input type="button" value="EXIT"/>
--

4045 A

<input type="button" value="1"/> <input type="button" value="2"/> <input type="button" value="3"/> <input type="button" value="4"/> <input type="button" value="5"/> <input type="button" value="6"/> <input type="button" value="7"/> <input type="button" value="8"/> <input type="button" value="9"/> <input type="button" value="0"/>
--

Write from which program number you want to clear wash programs.

Press ↓.



Procedure for use

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CLEAR COUNTER CLS		
FROM PROGRAM NUMBER: 1		
TO PROGRAM NUMBER: 0		
TO END: TO PROGRAM NUMBER = 0		
*	↓	EXIT

4046 A



Enter digits corresponding to the program number (inclusive) up to which you wish to clear the total counter.

ERASE.

CLEAR COUNTER CLS		
ARE YOU SURE ?		
PRESS SELECT ELSE PRESS ANY OTHER KEY		
*	*	SELECT

4043 A

First you have the chance to change your mind.

If you **do not want to** reset the register:

Press any key other than SELECT.

If you do want to reset the register:

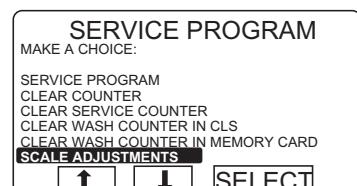
Press SELECT.

SELECT

Procedure for use

For machines with weighing equipment installed only!

Scale adjustments



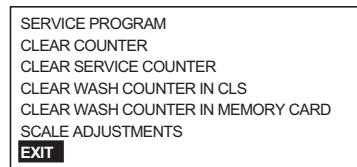
4777 A

Press ↓ repeatedly until SCALE ADJUSTMENTS is highlighted.

Press SELECT.



SELECT



SELECT

When you have finished:
Press ↓ repeatedly until EXIT is highlighted.



Press SELECT.

Scale adjustments

The following functions are accessed via the SCALE ADJUSTMENTS menu:

Reset scale to zero (see section "Reset scale to zero")

Used to make the weighing equipment display 0 when the machine has no load in it.

Reset tare to zero (see section "Reset tare to zero")

Used to clear a stored tare parameter.

Tare scale (see section "Tare scale")

Used to reset the weighing equipment so that a weight such as a container will not be included when calculating net weight.

Set tare to a certain value (see section "Set tare to a certain value")

Used to enter a value for the tare parameter, a weight in hectograms.

Read tare value (see section "Read tare value")

Used to check the value currently stored as the tare parameter.

Calibrate the scale (see section "Calibrate the scale")

This function is used only on installation of a new scale unit.

Zero calibration (see section "Zero calibration")

Used to increase the accuracy of the weighing equipment.

Read version number (see section "Read version number")

This is where you find the version number of the weighing equipment.

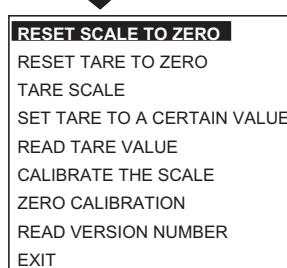
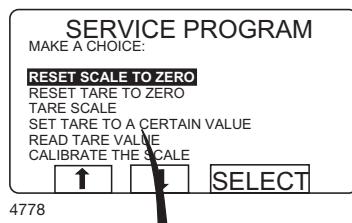
If the weighing equipment is not connected, the error message "WEIGHING EQUIPMENT NOT CONNECTED" will be displayed. Connect the weighing equipment and try again. If necessary, see the section "Fault-finding, weighing equipment" in the machine manual.

Procedure for use

45

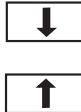
For machines with weighing equipment installed only!

Reset scale to zero



Check that "RESET SCALE TO ZERO" is highlighted.

If it isn't...



Press **↑** or **↓** as required to highlight "RESET SCALE TO ZERO".



Press **SELECT**.

Reset scale to zero

"Reset weighing equipment" is used to make the weighing equipment display 0 when the machine has no load in it.

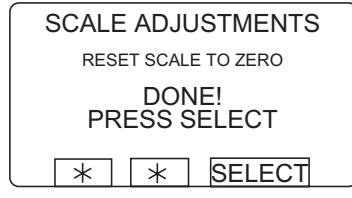
If your attempt to reset the weighing equipment fails at this point, you will see an error message equivalent to: "FAILED. PRESS SELECT" on the display. For troubleshooting, see the section "Fault-finding, weighing equipment" in the machine manual.

Please note:

The machine must be unladen when you use this function, i.e. no water or wash load in the drum.

Please note:

After a power-cut, the weighing equipment will always display 0, no matter what the actual load in the drum. In this event you will have to use the "Reset scale to zero" function.



This screen shows that the weighing equipment has been reset to zero.

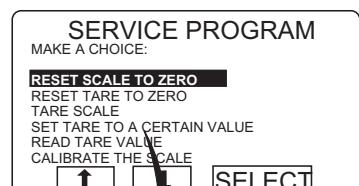


Press **SELECT**.

Procedure for use

For machines with weighing equipment installed only!

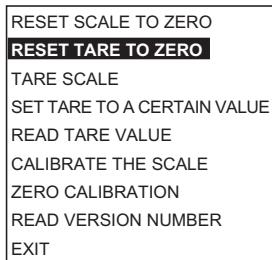
Reset tare to zero



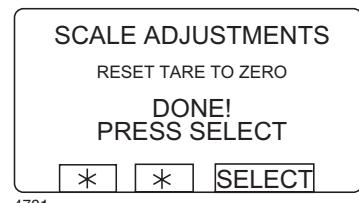
Reset tare to zero

If your attempt to clear the tare parameter fails at this point, you will see an error message equivalent to: "FAILED. PRESS SELECT" on the display. For troubleshooting, see the section "Fault-finding, weighing equipment" in the machine manual.

Press **↓** once to highlight "RESET TARE TO ZERO".



SELECT Press SELECT.



This screen shows that the stored tare parameter has been cleared.

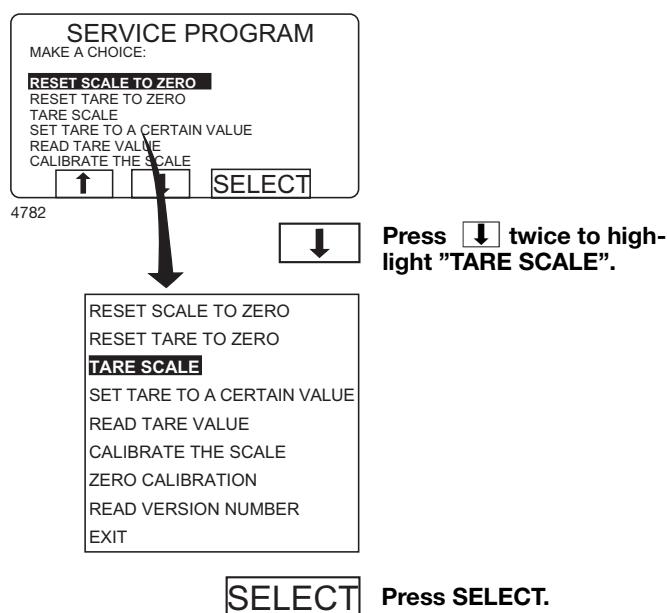
SELECT Press SELECT.

Procedure for use

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For machines with weighing equipment installed only!

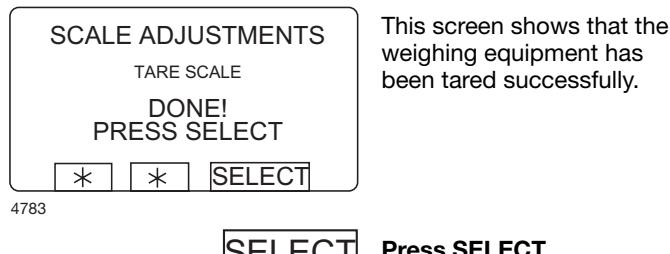
Tare scale



Tare scale

This function involves first loading the drum with, for example, a container, then taring (resetting) the weighing equipment so that the weight of the container will not be included when calculating net weight.

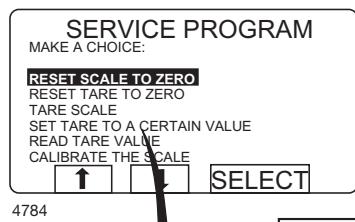
If your attempt to tare the weighing equipment fails at this point, you will see an error message equivalent to: "FAILED. PRESS SELECT" on the display. For troubleshooting, see the section "Fault-finding, weighing equipment" in the machine manual.



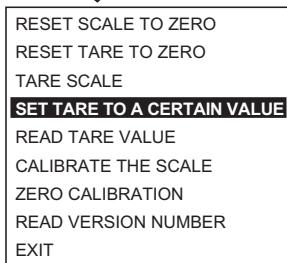
Procedure for use

For machines with weighing equipment installed only!

Set tare to a certain value



Press **↓** three times to highlight "SET TARE TO A CERTAIN VALUE"

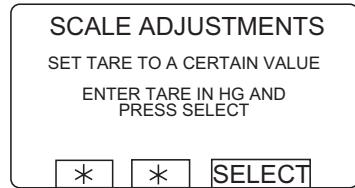


SELECT Press SELECT.

Set tare to a certain value

This function lets you enter a value for the tare parameter, i.e. a weight value which the weighing equipment will disregard when showing a net weight on the display. The function will automatically clear any earlier tare value when you enter a new one.

If your value is not entered successfully at this point, you will see an error message equivalent to: "FAILED. PRESS SELECT" on the display. For troubleshooting, see the section "Fault-finding, weighing equipment" in the machine manual.



Use the numeric keys to enter the tare you require, unit: hectograms; 1 hectogram = 100 grams).



SELECT Press SELECT.



This screen shows that the parameter has been entered successfully.

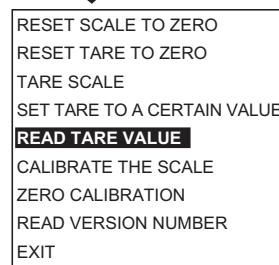
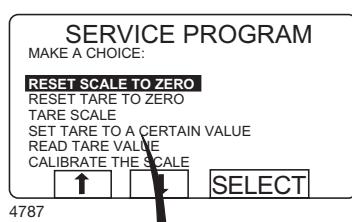
SELECT Press SELECT.

Procedure for use

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For machines with weighing equipment installed only!

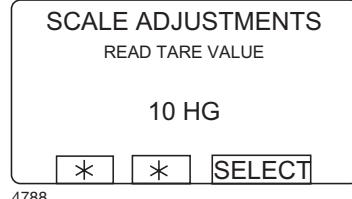
Read tare value



SELECT Press SELECT.

Read tare value

This function lets you check the value currently stored as the tare parameter.



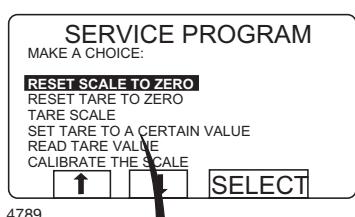
This screen shows the stored tare parameter (unit: hectograms (1 hectogram = 100 grams)).

SELECT Press SELECT.

Procedure for use

For machines with weighing equipment installed only!

Calibrate the scale



RESET SCALE TO ZERO
RESET TARE TO ZERO
TARE SCALE
SET TARE TO A CERTAIN VALUE
READ TARE VALUE
CALIBRATE THE SCALE
ZERO CALIBRATION
READ VERSION NUMBER
EXIT

SELECT

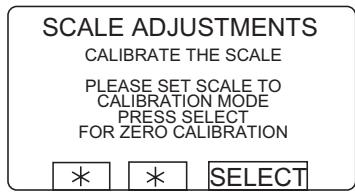
Press ↓ five times to highlight "CALIBRATE THE SCALE".

Please note:

This function is used only on installation of a new scale unit.

Calibrate the scale

If this calibration has not succeeded you will see an error message equivalent to: "FAILED. PRESS SELECT" on the display. For troubleshooting, see the section "Fault-finding, weighing equipment" in the machine manual.



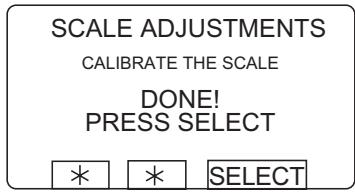
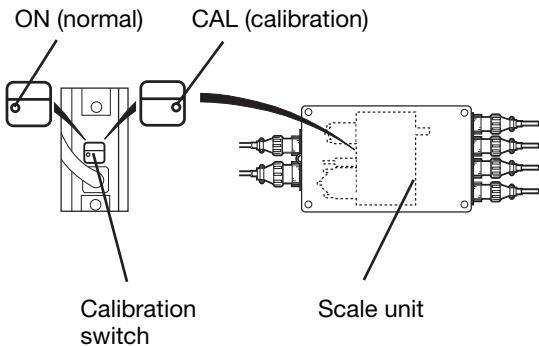
SELECT

Press **SELECT**.

Set the calibration switch to calibration mode.

Calibration mode/normal mode

To gain access to the calibration switch in the scale unit, the top panel has to be taken off. Remove the four screws on the scale unit cover. Then the calibration switch can be switched between normal mode "ON" and calibration mode "CAL".



SELECT

Press **SELECT**.

Procedure for use

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For machines with weighing equipment installed only!

SCALE ADJUSTMENTS

CALIBRATE THE SCALE

FILL DRUM WITH CALIBRATION WEIGHT
ENTER WEIGHT IN HG AND
PRESS SELECT

* * SELECT

4792



SELECT

Put the calibration weight in the drum.

Use the numeric keys to enter the calibration weight in hg (1 hg = 100 grams).

Press SELECT.

Calibration weight

A weight of between 40 kg and 400 kg should be used as a calibration weight.

The higher the weight (within these limits), the better the weighing accuracy of the machine.

SCALE ADJUSTMENTS

CALIBRATE THE SCALE

DONE!
PRESS SELECT

* * SELECT

4791

SELECT

Press SELECT.

SCALE ADJUSTMENTS

CALIBRATE THE SCALE

REMOVE WEIGHT AND PRESS SELECT

* * SELECT

4793

SELECT

Remove the calibration weight.

Press SELECT.

SCALE ADJUSTMENTS

CALIBRATE THE SCALE

PRESS SELECT FOR ZERO CALIBRATION

* * SELECT

4794

SELECT

If you want to use the "Calibrate zero" function now:

Press SELECT.

Procedure for use

For machines with weighing equipment installed only!

SCALE ADJUSTMENTS

CALIBRATE THE SCALE

DONE!
PRESS SELECT

SELECT

4791

SELECT

Press SELECT.

SCALE ADJUSTMENTS

CALIBRATE THE SCALE

RESET SCALE FROM CALIBRATION
MODE AND PRESS SELECT

SELECT

4795

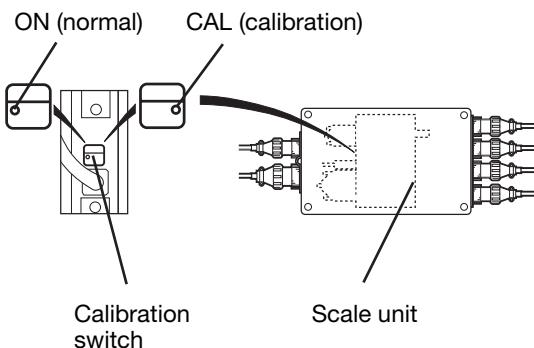
SELECT

Press SELECT.

**Restore the calibra-
tion switch to normal
mode.**

Calibration mode/normal mode

To gain access to the calibration switch in the scale unit, the top panel has to be taken off. Remove the four screws on the scale unit cover. Then the calibration switch can be switched between normal mode "ON" and calibration mode "CAL".



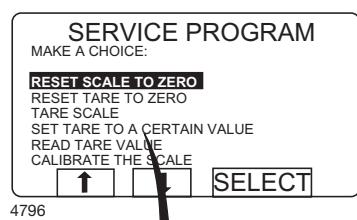
4758 A

Procedure for use

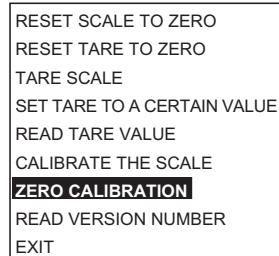
53

For machines with weighing equipment installed only!

Zero calibration



Press **↓** six times to highlight "ZERO CALIBRATION".



SELECT

Press **SELECT**.

Zero calibration

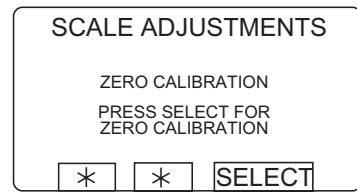
The "Zero calibration" function is used to increase the accuracy of the weighing equipment. This should be done once a month.

If this calibration has not succeeded you will see an error message equivalent to: "FAILED. PRESS SELECT" on the display.

For troubleshooting, see the section "Fault-finding, weighing equipment" in the machine manual.

Please note:

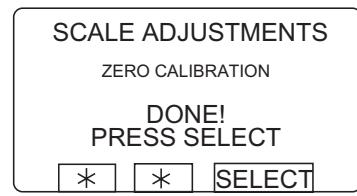
The machine must be unladen during this calibration, i.e. no water or wash load in the drum.



If you wish to calibrate zero for the weighing equipment:

SELECT

Press **SELECT**.



This screen shows you have calibrated zero.

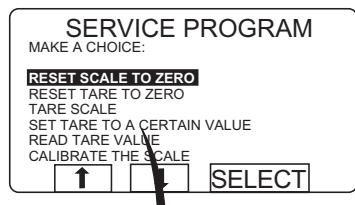
SELECT

Press **SELECT**.

Procedure for use

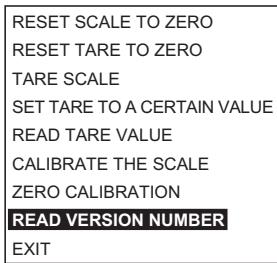
For machines with weighing equipment installed only!

Read version number



4799

Press **↓** seven times to highlight "READ VERSION NUMBER".



SELECT Press SELECT.

Read version number

In the event of a fault in the weighing equipment (which cannot be put right with the aid of the section "Fault-finding, weighing equipment" in the machine manual), make a note of the version number accessed via this function before you contact the supplier's service department.



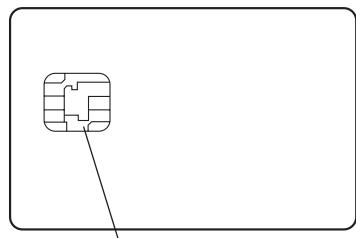
4800

The screen shows the version number.

SELECT Press SELECT.

Memory card

General introduction



A memory card is a plastic card, the size of a credit card, with an electronic memory chip inside it. This memory card is capable of storing 10 to 15 wash programs of normal size. If the programs are mostly small ones, more of them can be stored, whereas larger programs will reduce the number which can be held by the memory card. Memory cards of this type can be used to:

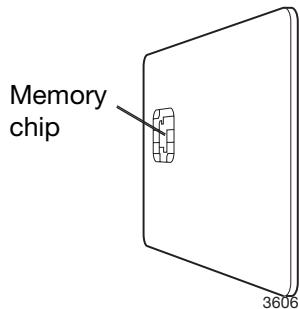
- transfer wash programs from one machine to another
- run wash programs straight from the memory card
- transfer wash programs from a PC to a memory card and from a memory card to a PC (these procedures, and how to write a wash program on a PC, are described elsewhere)

A program stored on a memory card may be given restricted-use status. This means that:

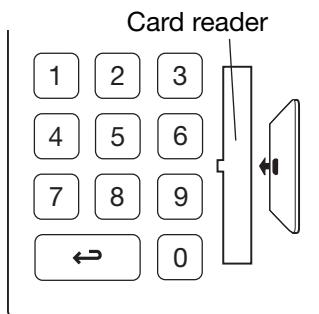
- The program cannot be deleted or copied to the program control unit of a washer extractor.
- You cannot alter the program or inspect the way it is written.
- To run the program you have to have the memory card and to insert it into the program control unit when the program is to be started.

Procedure for use

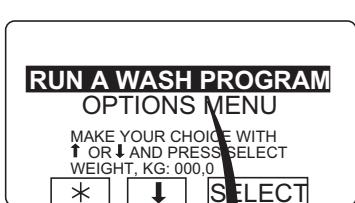
To select the "Memory card" function



Turn the memory card so its memory chip is at the far end, and on the left of the card...



...then insert the memory card into the program control unit.



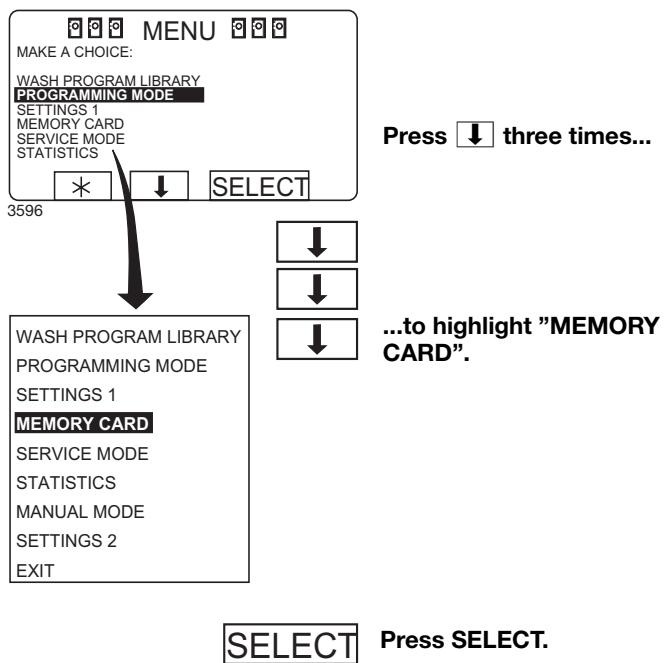
If this menu is not currently displayed:

Press **→** repeatedly.

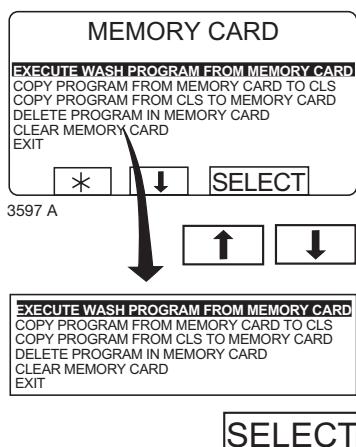
Press **↓** to highlight "GO TO THE MENU".

RUN A WASH PROGRAM
OPTIONS MENU

SELECT Press SELECT.



Procedure for use



Select the **function** required using the cursor keys.

Press **SELECT**.

"The "Memory card" functions

Run wash program straight from memory card (see section "To run a wash program straight from a memory card")

A wash program can be run from the memory card, without first being copied to the washer extractor. The memory card may be removed from the card reader after the program has started.

Programs on memory cards may have "restricted-use" status, which means that they can only be run straight from the memory card, not copied or modified.

Copy program from memory card to PCS (see section "To copy a program from a memory card to the machine's program control unit")

One or more wash programs can be copied from the memory card to the memory chip in the machine's program control unit. Note that programs on the memory card with "restricted-use" status cannot be copied to the machine memory chip.

Copy program from PCS to memory card (see section "To copy a program from the program control unit to a memory card")

One or more wash programs can be copied from the memory chip in the machine's program control unit to the memory card. The memory card can hold 10 to 15 wash programs of normal size.

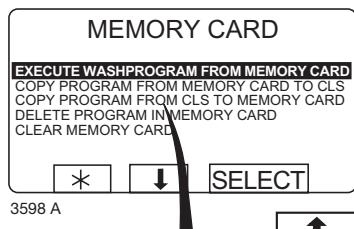
Delete program on memory card (see section "To delete a program on a memory card")

Clear memory card (see section "To delete all programs on a memory card")

Procedure for use

59

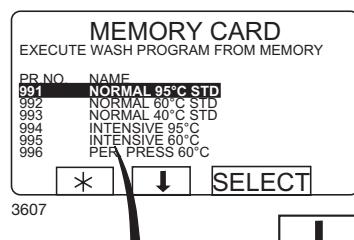
To run a wash program straight from a memory card



To access this menu, follow the instructions in section "To select the "Memory card" function".

Highlight "EXECUTE WASH PROGRAM FROM MEMORY CARD" (press **UP if necessary).**

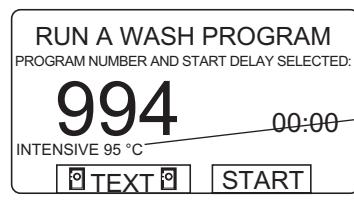
Press SELECT.



If necessary, use **DOWN** to...

... highlight the wash program required.

Press SELECT.



Program name

If you want to see the description of the program (where available):

Press TEXT.

START

To start the program:

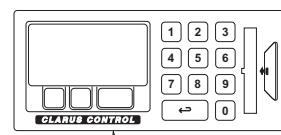
Press START.

Once the program has started, the memory card may be removed from the card reader.

To run a program from the memory card

In broad terms, the program control unit has two different memories. One is a "**program memory**" where all its wash programs are stored, the other is an "**operating memory**", which is used to hold the program currently in use. The program control unit takes the instructions it needs to run the program from the operating memory.

When a wash program is started, the correct program is retrieved from the program memory and copied into the operating memory.

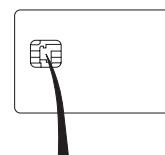


Program memory program control unit	
991	NORMAL 95°C STD
992	NORMAL 60°C STD
993	NORMAL 40°C STD
994	INTENSIVE 95°C
995	INTENSIVE 60°C
996	PERM. PRESS 60°C
997	PERM. PRESS 40°C
998	LOW EXTRACT 1 MIN
999	HIGH EXTRACT 5 MIN

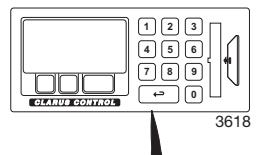
Operating memory program control unit	
997	PERM. PRESS 40°C

Program currently being used

A parallel process takes place when a program is started from a memory card. In other words, the program is copied from the memory card into the operating memory, and the machine runs the program entirely from the set of instructions in the operating memory.



Program memory card	
1	MY OWN 40 °C
2	MY OWN 60 °C
3	MY OWN 90 °C
4	MY OWN WOOL 30 °C
5	MY OWN INTENSIVE



Program memory program control unit	
991	NORMAL 95°C STD
992	NORMAL 60°C STD
993	NORMAL 40°C STD
994	INTENSIVE 95°
995	INTENSIVE 60°C
996	PERM.PPRESS 60°C
997	PERM.PPRESS 40°C
998	LOW EXTRACT 1 MIN
999	HIGH EXTRACT 5 MIN

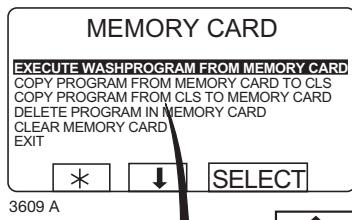
Operating memory program control unit	
4	MY OWN WOOL 30 °C

That is why you may remove the memory card from the card reader once the program has started.

Once the program has ended it is erased from the operating memory.

Procedure for use

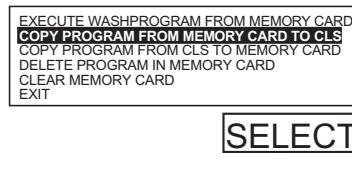
To copy a program from a memory card to the machine's program control unit



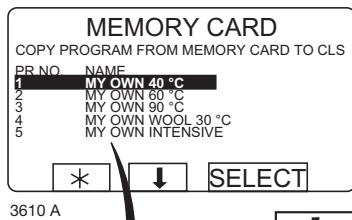
To access this menu, follow the instructions in section "To select the "Memory card" function".

Note that restricted-use programs on a memory card cannot be copied.

Highlight "COPY PROGRAM FROM MEMORY CARD TO CLS" (press ↓ or ↑ if necessary).



Press **SELECT**.



If necessary, use ↓ to...



... highlight the wash program required.

Press **SELECT**.

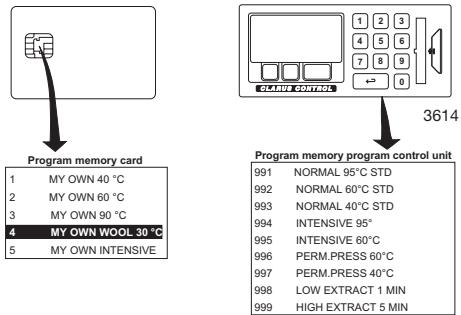
What is a restricted-use program?

A wash program which has been created on a PC can be made a "restricted-use" program. This means that:

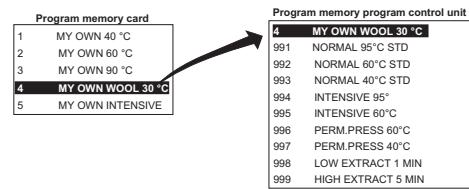
- The program cannot be deleted or copied to the program memory of a washer extractor.
- You cannot modify the program or examine its structure.
- To run the program you must have access to the memory card, and insert it into the card reader when the program is to be started.

What happens when a program is copied?

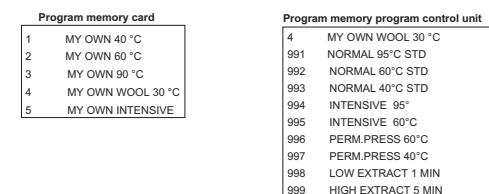
Both the memory card and the program control unit have memory chips capable of storing wash programs. The chip on the card can hold about 10 to 15 programs of normal size, while the chip in the program control unit has a capacity of several hundred programs.



When a program is copied from a memory card to the machine's program control unit, it is copied, not moved (not deleted from the card). A copy is transferred from the chip on the memory card to the storage chip of the machine program control unit.

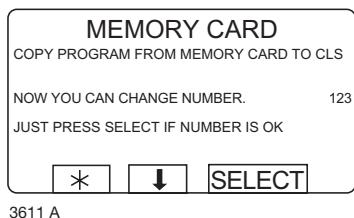


The program remains on the memory card, but another copy of it has now been stored in the program control unit.



Procedure for use

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3611 A



SELECT

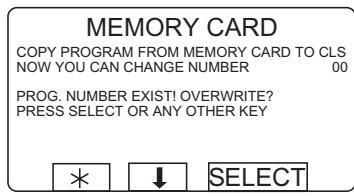
Choose 1 or 2:

- 1 If you want to give the program a different program number (from the one it had on the memory card):

Use the numeric keys to enter the new program number, then press SELECT.

- 2 If the existing number is suitable:

Press SELECT.



4114 A

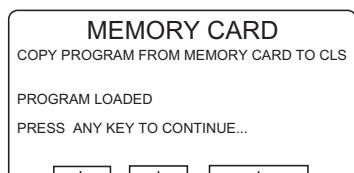


SELECT

If the number you have chosen is already used:

- 1 Select another number.
Enter the new number and press SELECT.
- 2 Erase the old program number.
Press SELECT.

Procedure for use

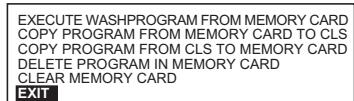


3612 A

After the program has been copied (it takes only a few seconds) the menu will look like this:

If you want to copy more programs:

Press any key to continue.



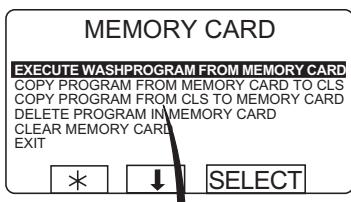
4210 A

When you have finished:

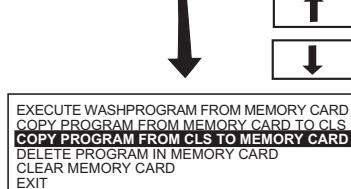
Press repeatedly to highlight "EXIT".

SELECT **Press SELECT.**

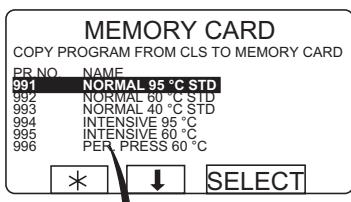
To copy a program from the program control unit to a memory card



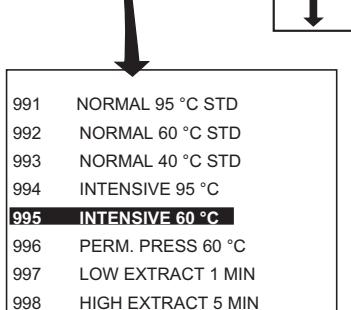
3619 A


SELECT

Highlight "COPY PROGRAM FROM CLS TO MEMORY CARD" (press ↓ or ↑ if necessary).

Press SELECT.


3620 A

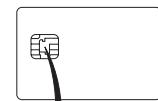

SELECT

**If necessary, use ↓ to...
... highlight the wash program required.**

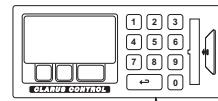
Press SELECT.

What happens when a program is copied?

Both the memory card and the program control unit have memory chips capable of storing wash programs. The chip on the memory card can hold about 10 to 15 programs of normal size, while the chip in the program control unit has a capacity of several hundred programs.



Program memory card	
1	MY OWN 40 °C
2	MY OWN 60 °C
3	MY OWN 90 °C
4	MY OWN WOOL 30 °C
5	MY OWN INTENSIVE



Program memory program control unit	
991	NORMAL 95°C STD
992	NORMAL 60°C STD
993	NORMAL 40°C STD
994	INTENSIVE 95°
995	INTENSIVE 60°C
996	PERM.PRESS 60°C
997	PERM.PRESS 40°C
998	LOW EXTRACT 1 MIN
999	HIGH EXTRACT 5 MIN

When a program is copied from the machine's program control unit to a memory card, it is copied, not moved (not deleted from the machine). A copy is transferred from the storage chip of the machine program control unit to the chip on the card.

Program memory card	
1	MY OWN 40 °C
2	MY OWN 60 °C
3	MY OWN 90 °C
4	MY OWN WOOL 30 °C
5	MY OWN INTENSIVE

Program memory program control unit	
991	NORMAL 95°C STD
992	NORMAL 60°C STD
993	NORMAL 40°C STD
994	INTENSIVE 95°
995	INTENSIVE 60°C
996	PERM.PRESS 60°C
997	PERM.PRESS 40°C
998	LOW EXTRACT 1 MIN
999	LOW EXTRACT 5 MIN

3621

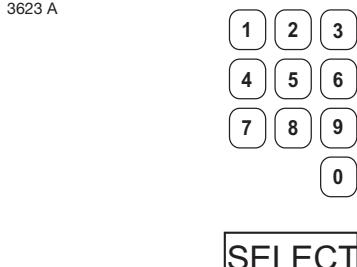
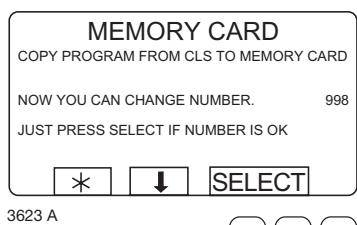
The program remains in the program control unit, but another copy of it has now been stored on the card.

Program memory card	
1	MY OWN 40 °C
2	MY OWN 60 °C
3	MY OWN 90 °C
4	MY OWN WOOL 30 °C
5	MY OWN INTENSIVE

Program memory program control unit	
991	NORMAL 95°C STD
992	NORMAL 60°C STD
993	NORMAL 40°C STD
994	INTENSIVE 95°
995	INTENSIVE 60°C
996	PERM.PRESS 60°C
997	PERM.PRESS 40°C
998	LOW EXTRACT 1 MIN
999	LOW EXTRACT 5 MIN

3622

Procedure for use

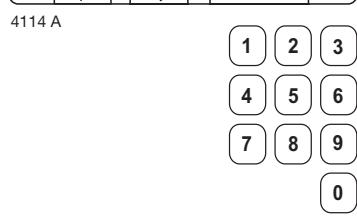
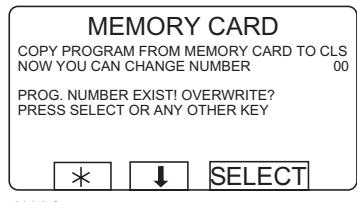

Choose 1 or 2:

- 1 If you want to give the program a different program number (from the one it had on the machine):

Use the numeric keys to enter the new program number, then press SELECT.

- 2 If the existing number is suitable:

Press SELECT.



If the number you have chosen is already used:

- 1 Select another number.

Enter the new number and press SELECT.

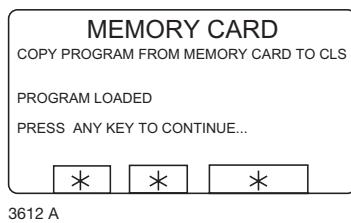
- 2 Erase the old program number.

Press SELECT.



Procedure for use

65

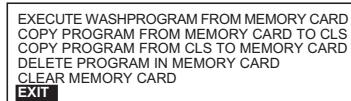


3612 A

After the program has been copied (it takes only a few seconds) the menu will look like this:

If you want to copy more programs:

Press any key to continue.



4210 A

SELECT

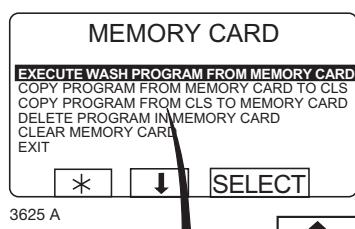
When you have finished:

Press repeatedly to highlight "EXIT".

Press SELECT.

Procedure for use

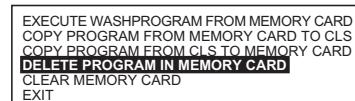
To delete a program on a memory card



To access this menu, follow the instructions in section "To select the "Memory card" function"

Note that restricted-use programs on a memory card cannot be deleted.

Highlight "DELETE PROGRAM IN MEMORY CARD" (press **▲** or **▼** if necessary).

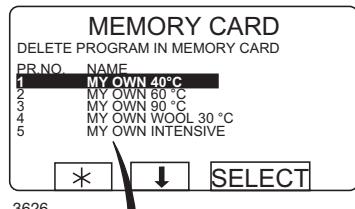


SELECT Press **SELECT**.

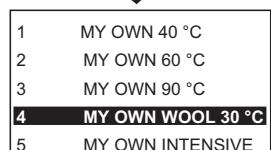
What is a restricted-use program?

A wash program which has been created on a PC can be made a "restricted-use" program. This means that:

- The program cannot be deleted or copied to the program memory of a washer extractor.
- You cannot modify the program or examine its structure.
- To run the program you must have access to the memory card, and insert it into the card reader when the program is to be started.



If necessary, use **▼** to...



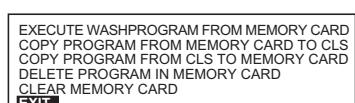
.... highlight the wash program required.

SELECT Press **SELECT**.

The program will now be deleted from the memory card. This takes between 5 and 15 seconds.

If you want to delete more programs:

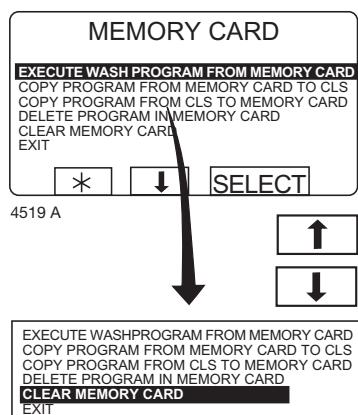
Continue in the same way as described above.



When you have finished:
Press **▼ repeatedly to highlight "EXIT".**

SELECT Press **SELECT**.

To delete all programs on a memory card



Note that restricted-use programs on a memory card cannot be copied or deleted.

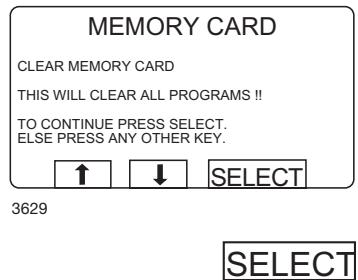
Highlight "CLEAR MEMORY CARD" (press ↓ or ↑ if necessary).

SELECT Press SELECT.

What is a restricted-use program?

A wash program which has been created on a PC can be made a "restricted-use" program. This means that:

- The program cannot be deleted or copied to the program memory of a washer extractor.
- You cannot modify the program or examine its structure.
- To run the program you must have access to the memory card, and insert it into the card reader when the program is to be started.



If you change your mind and do not want to delete the entire memory card:

Press any key other than SELECT.

If you want to delete all programs on the memory card (with the exception of any restricted-use programs):

Press SELECT.

Maintenance

Daily

- Clean the door seal and remove detergent residue.
- Check that the door does not leak.
- Clean the detergent compartment and wipe down the machine with a damp cloth.
- Check that the drain valve does not leak.
- Start the machine and check that the door remains locked while the machine is operating. Fast forward the machine to the stop position and check that the door cannot be opened until the program is completed.

Every month

- Check that valves, hoses and connections do not leak.
- Remove any textile lint from the drain opening, joints in drain pipes etc.

Every third month

Accumulated chemicals on the panel ledges.

- Disconnect electrical power from the machine.
- Turn off the water supply and bleed the pressure from the supply hoses.
- Remove the water supply hoses from the rear of the machine and clean or replace the inlet screens, as needed.
- Thoroughly clean the detergent dispenser.
- Remove the top and front panels from the machine.
- To help prevent corrosion, clean accumulation of detergent and other chemicals from the panels.
- Inspect inside of machine for leaks. Repair as needed.
- Clean the door gasket.
- Reinstall top and front panels.
- Restore power and return the machine to service.

Service information - Fault tracing

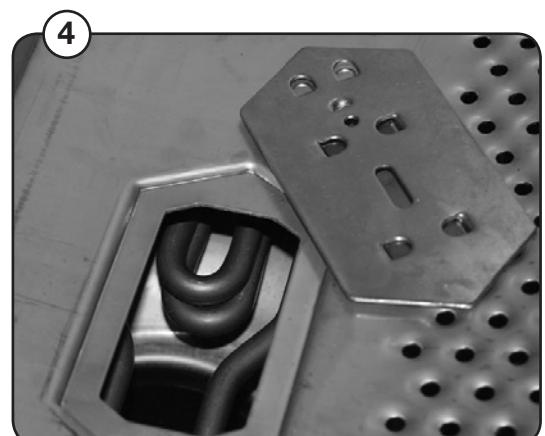
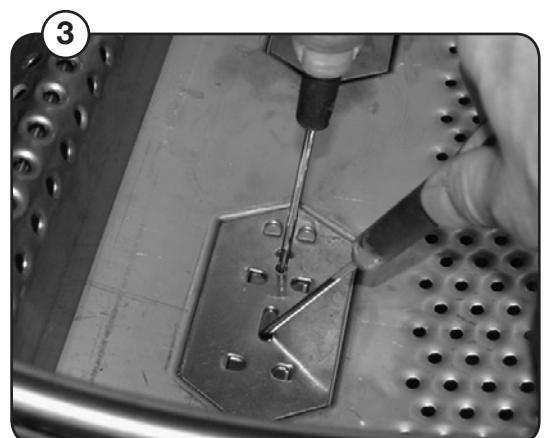
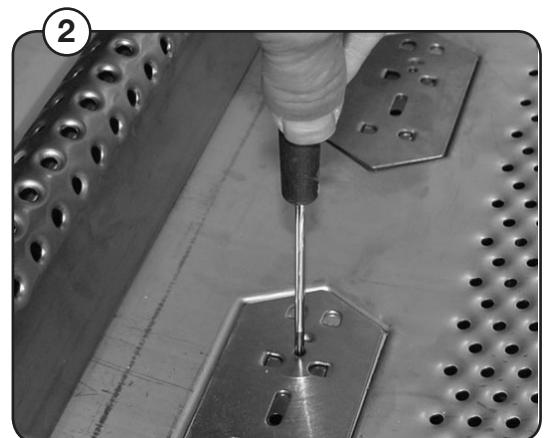
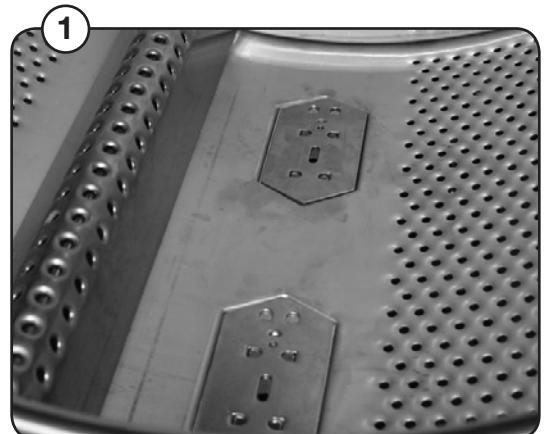
If the machine fails to start, check to ensure that:

- it is turned on at the mains.
- the manual shut-off valves are open.
- a programme has been selected.
- if it is a coin-operated machine, that the correct amount of coins or tokens have been inserted.
- the drum door is locked

On machines built for washing mops, it can be caused by too low a level in the program stage. The lowest level for a mop program in the main wash with heating is 22 scale units.

Cleaning the mop elements

- ① • Depending on the size of the machine, you will find one or two core covers in the machine's inner drum so that the elements can be cleaned if so required. The front cover is located directly above the drain, while the other is in front of the element retainer. Two small screwdrivers are required to remove the core cover.
- ② • Use a screwdriver to press down on the retaining plate in the round hole on the core cover.
- ③ • Place the other screwdriver in the oval hole on the core cover and through the round hold in the retaining plate
 - Push the retaining plate towards the screwdriver which is pressing down on the retaining plate.
- ④ • Remove the core element/elements and clean the elements. If the elements are very dirty, it may be wise to remove the elements from the drum when cleaning them.
 - The core covers are refitted in reverse order, with the difference that it is not necessary to press on the retaining plate; you only need to push the retaining plate back into place. When you hear a clicking sound, the retaining plate is in position.



Types: W.55H., W3..., W4.H., EXSM.X.**Product standard:** EN 60335-2-7

Washer Extractors

Försäkran om överensstämmelse

Vi, Electrolux Laundry Systems Sweden AB
SE-341 80 Ljungby, Sverige

försäkrar under eget ansvar att denna produkt, med typbeteckning och enl. ovan, är tillverkad i överensstämmelse med följande direktiv:

- Maskindirektivet 98/37/EEC
- Lågspänningssdirektivet 73/23/EEG
- EMC-direktivet 89/336/EEC
- RoHS-direktivet 2002/95/EC

CE Declaration of conformity

We, Electrolux Laundry Systems Sweden AB
SE-341 80 Ljungby, Sweden

declare under our sole responsibility that the product of the type stated above is manufactured in conformity with the following [EU] directives:

- Directive 98/37/EEC
- Directive 73/23/EEC
- Directive 89/336/EEC
- RoHS-directive 2002/95/EC

EG-Konformitätserklärung

Wir, die, Electrolux Laundry Systems Sweden AB
SE-341 80 Ljungby, Schweden

erklären hiermit in alleiniger Verantwortung, daß das Produkt mit der oben genannten Typenbezeichnung mit allen folgenden EU-Richtlinien übereinstimmt:

- Richtlinie 98/37/EWG
- Richtlinie 73/23/EWG
- Richtlinie 89/336/EWG
- Richtlinie 2002/95/EC

Déclaration de conformité CE

Nous, Electrolux Laundry Systems Sweden AB
SE-341 80 Ljungby, Suède

déclarons sous notre seule et unique responsabilité que le produit des type et numéro de série indiqués ci-dessus est fabriqué conformément aux directives UE suivantes:

- Directive 98/37/CEE
- Directive 73/23/CEE
- Directive 89/336/CEE
- RoHS-directif 2002/95/EC

Declaración de conformidad CE

Electrolux Laundry Systems Sweden AB
con sede en SE-341 80 Ljungby, Suecia

declara bajo su exclusiva responsabilidad que el producto cuyo tipo se especifica en el encabezado se ha fabricado conforme a las siguientes directivas:

- Directiva 98/37/CEE sobre maquinaria
- Directiva 73/23/CEE sobre maquinaria
- Directiva 89/336/CEE sobre maquinaria
- RoHS-directiva 2002/95/EC

Erklæring om EU-overensstemmelse

Vi Electrolux Laundry Systems Sweden AB
SE-341 80 Ljungby, Sverige

erklærer på eget ansvar, at produktet med typebetegnelse som angivet er fremstillet i overensstemmelse med følgende EU-direktiver:

- 98/37/EOF (maskindirektivet)
- 73/23/EOF (lavspændingsdirektivet)
- 89/336/EOF (EMC-direktivet)
- RoHS-direktiv 2002/95/EC

EY-Vaatinustenmukaisuusvakuutus

Me Electrolux Laundry Systems Sweden AB
SE-341 80 Ljungby, Ruotsi

vakuutamme yksinomaan omalla vastuullamme, että tuote, jonka typpitunnus lukee yllä, on valmistettu seuraavien [EU]-direktiivien mukaisesti:

- Komedirektivi 98/37/ETY
- Pienjännitedirektivi 73/23/ETY
- EMC-direktivi 89/336/ETY
- RoHS-direktivi 2002/95/EC

EF-samsvarserklæring

Vi, Electrolux Laundry Systems Sweden AB
SE-341 80 Ljungby, Sverige,

erklærer på eget ansvar at dette produktet, med typebetegnelse og produksjonsnummer som angitt nedenfor, er produsert i samsvar med bestemmelserne i følgende direktiver:

- Maskindirektivet 98/37/EOF
- Lavspenningsdirektivet 73/23/EOF
- EMC-direktivet 89/336/EOF
- RoHS-direktivet 2002/95/EC

EG-Conformiteitsverklaring

Wij, Electrolux Laundry Systems Sweden AB
SE-341 80 Ljungby, Zweden

verklaren hierbij op eigen verantwoordelijkheid dat het produkt van het type en met het serienummer zoals hieronder vermeld, is vervaardigd conform de volgende normen:

- Machinenorm 98/37/EEG
- Laagspanningsnorm 73/23/EEG
- EMC-norm 89/336 EEG
- RoHS-richtlijn 2002/95/EC

Dichiarazione CE di conformità

Noi Electrolux Laundry Systems Sweden AB
SE-341 80 Ljungby, Svezia

dichiariamo sotto la nostra esclusiva responsabilità che il prodotto del tipo specificato sopra è conforme alle seguenti direttive [UE]:

- Direttiva sulle macchine 98/37/CEE
- Direttiva sulla bassa tensione 73/23/CEE
- Direttiva sulla CEM 89/336/CEE
- Direttiva RoHS 2002/95/EC

Declaração CE de conformidade

Nós, Electrolux Laundry Systems Sweden AB
SE-341 80 Ljungby, Suécia

declaramos sob nossa inteira responsabilidade que o produto com os números de série e de tipo abaixo indicados é fabricado em conformidade com as seguintes directivas [UE]:

- Directiva 98/37/CEE sobre maquinaria
- Directiva 73/23/CEE sobre baixa tensão
- Directiva 89/336/CEE sobre compatibilidade electromagnética
- RoHS-directiva 2002/95/EC

ΔΗΛΩΣΗ ΠΙΣΤΟΤΗΤΑΣ ΕΚ

H Electrolux Laundry Systems Sweden AB
SE-341 80 Ljungby, Σουηδία

δηλώνω με αποκλειστική της ευθύνη ότι το προϊόν του κάτωθι αναφερόμενου τύπου κατασκευάζεται σύμφωνα με τις παρακάτω οδηγίες της Ευρωπαϊκής Ένωσης:

- Οδηγία 98/37/EOK
- Οδηγία 73/23/EOK
- Οδηγία 89/336/EOK
- Οδηγία RoHS 2002/95/EC

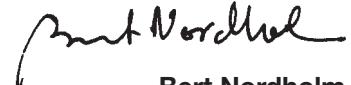
CE megfelelőségi nyilatkozat

Mi, az Electrolux Laundry Systems Sweden AB
SE-341 8 Ljungby, Svédország

felelősségeink teljes tudatában kijelentjük, hogy az alább megadott típusú termék gyártása a következő EU-irányelvellekkel összhangban történik:

- a 98/37/EGK irányelv;
- a 73/23/EGK irányelv;
- a 89/336/EGK irányelv.
- RoHS-irányelv 2002/95/EC

Ljungby 2006.05.22



Bert Nordholm
Production Director



Skrotning av maskin

När maskinen inte längre skall användas måste den lämnas till en återvinningsstation för destruktion. Många detaljer i maskinen går att återanvända, men den innehåller även annat material som måste tas om hand på ett korrekt sätt. Lämna därför aldrig maskinen eller delar av maskinen i hushållsavfallet, eftersom det kan leda till hälsorisker eller skador på miljön.

Scraping of machine

When the machine is no longer to be used, it must be submitted to a recycling facility for destruction. The majority of the components in the machine can be reused, but it also contains other material that must be taken care of in the correct way. Therefore, never mix the machine or its parts with domestic waste as this may lead to health hazards or damage to the environment.

Entsorgung des Geräts

Wenn das Gerät nicht länger im Gebrauch ist, muss dieses einer Recyclingstation zur Entsorgung zugeführt werden. Viele Komponenten des Geräts sind recyclingfähig, enthalten aber auch Materialien, die vorschriftsmäßig entsorgt werden müssen. Entsorgen Sie daher das Gerät oder Geräteteile niemals im Hausmüll, da dies Gefahren für die Gesundheit oder Umweltschäden nach sich ziehen kann.

Mise au rebut de machine

Lorsque la machine n'est plus utilisée, elle doit être déposée à une installation de recyclage pour y être détruite. La majorité des composants de la machine peuvent être réutilisés mais celle-ci contient également d'autres matériaux qui doivent être traités correctement. C'est pourquoi vous ne devez jamais mélanger la machine ou ses pièces avec les ordures ménagères, risque de pollution pour l'environnement ou la santé.

Desguace de la máquina

Cuando la máquina no tenga que utilizarse más, ha de entregarse a una instalación de destrucción para su reciclado. La mayor parte de sus componentes pueden volver a utilizarse, pero consta también de otros materiales que han de ser tratados de la manera correcta. Por esa razón nunca mezclar la máquina ni sus partes con la basura doméstica pues esto podría constituir un peligro para la salud o dañar el medio ambiente.

Bortskaffelse af maskinen

Når maskinen ikke længere er i brug, skal den afleveres til destruktion på en genbrugsstation. Mange dele i maskinen kan genanvendes, men den indeholder også andre materialer, der skal håndteres korrekt. Smid derfor ikke maskinen eller dele af den ud sammen med husholdningens almindelige affald, da det kan være forbundet med sundhedsrisiko eller give miljøskader.

Koneen hävitäminen

Kun konetta ei enää käytetä, se pitää luovuttaa kierrätyskeskukseen tuhottavaksi. Suurinta osaa koneen osista voidaan käyttää uudelleen, mutta se sisältää myös materiaaleja, jotka pitää käsittää asianmukaisesti. Älä sen vuoksi koskaan lataa konetta tai sen osia kotitalousjätteen sekä, sillä se saattaa aiheuttaa terveysriskejä tai vahinkoa ympäristölle.

Skrotning av maskin

Når maskinen ikke lenger skal brukes, må den leveres til en gjenvinningsstasjon for destruksjon. Det går an å gjenvinne mange deler av maskinen, men den inneholder også annet materiale som man må ta hånd om på riktig måte. Legg derfor aldri maskinen eller deler av maskinen i husholdningsavfallet, siden det kan føre til helse- eller miljøskader.

Afdanken van de machine

Als de machine niet langer gebruikt gaat worden, moet deze ter vernietiging worden aangeboden bij een recyclinginrichting. De meeste componenten van de machine kunnen worden hergebruikt, maar hij bevat ook ander materiaal dat op een juiste wijze moet worden behandeld. Daarom de machine of zijn onderdelen nooit bij het huisvuil zetten, want dat kan leiden tot gezondheidsrisico's of schade aan het milieu.

Rottamazione della macchina

Quando la macchina non può più essere utilizzata, deve essere affidata a un centro di riciclaggio che ne effettui la rottamazione. La maggior parte dei componenti della macchina sono riciclabili, ma ce ne sono anche alcuni che devono essere smaltiti in modo appropriato. Perciò, non mischiare mai la macchina o parti di essa con i normali rifiuti domestici, poiché ciò potrebbe comportare rischi per la salute o per l'ambiente.

Złomowanie maszyny

Wycofaną z użytkowania maszynę należy przekazać do zakładu utylizacji w celu złomowania. Większość podzespołów maszyny nadaje się do powtórnego wykorzystania, lecz zawiera ona także inne materiały, z którymi należy postępować w odpowiedni sposób. Z tego powodu niedozwolone jest łączenie maszyny lub jej części z odpadami domowymi, gdyż może to prowadzić do zagrożenia zdrowia lub szkody dla środowiska.

Vyřazení přístroje

Přístroj, který již nebude používán, by měl být odevzdán k likvidaci do ekodvora. Většina součástek přístroje může být opětovně použita, některé ale vyžadují likvidaci přesně daným způsobem. A proto nikdy nemíchejte dohromady přístroje nebo jejich části s domácím odpadem, mohlo by to vést ke zdravotním rizikům nebo k poškození životního prostředí.

Οριστική απόσυρση μηχανήματος

Όταν το μηχάνημα δεν προορίζεται για περαιτέρω χρήση, θα πρέπει να οδηγείται σε εγκατάσταση ανακύκλωσης για καταστροφή Το μεγαλύτερο ποσοστό των εξαρτημάτων του μηχανήματος μπορεί να χρησιμοποιηθεί ξανά, αλλά το μηχάνημα περιλαμβάνει και άλλα υλικά η διαλογή των οποίων θα πρέπει να πραγματοποιείται με τον κατάλληλο τρόπο Κατά συνέπεια, μην αναμιγνύετε ποτέ το μηχάνημα ή τα εξαρτήματά του με οικιακά απορρίμματα καθώς αυτό μπορεί να αποβεί επικίνδυνο για την υγεία ή επιβλαβές για το περιβάλλον.

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